

# Clean Energy Is Our Future, Says Obama



SAM RANGE—THE TECH

**President Barack Obama speaks about his administration's energy policy and MIT's Energy Initiative at Kresge Auditorium on Friday. The President started his speech jovially mentioning that MIT hackers had placed his motorcade on Building 10. See pages 8-9 for more images of the event.**

**By Ana Lyons**  
STAFF REPORTER

President Barack Obama commended MIT for its “extraordinary energy research” and urged America to take leadership in cleaner technologies in a speech this past Friday at Kresge Auditorium.

“This is the nation that has led the world for two centuries in the pursuit of discovery. This is the nation that will lead the clean energy economy of tomorrow,” Obama said

to a crowd of about 750, including over 200 students and faculty.

Before the speech, President Susan J. Hockfield and MIT Energy Initiative director Ernest J. Moniz led Obama on a tour of several laboratories focusing on clean energy and technology.

Obama’s speech singled out innovation as the solution to America’s challenges. He talked of a “peaceful competition” with other countries to develop alternative sources of en-

ergy.

“The nation that wins this competition will be the nation that leads the global economy. I am convinced of that. And I want America to be that nation,” he said.

He pointed out that the Recovery Act, or stimulus bill, is already leading the U.S. in the direction of green jobs and research. The act provides the “largest single boost in scientific research in history,” he said.

The law also sets aside \$80 bil-

lion dollars for creating jobs in alternative energy and energy efficiency. For Americans this investment acts “not just help to end this recession, but to lay a new foundation for lasting prosperity,” he said.

Obama also advocated for the Senate climate change bill, which he said would “transform our energy system into one that’s far more efficient, far cleaner.” The bill would

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# Tosci's Gets a New Ice Cream Chef, 26 New Flavors

**By Ana Lyons**  
STAFF REPORTER

Churning out Toscanini’s newest flavors of ice cream is not a shiny new Cuisinart automatic, but local Le Cordon Bleu-trained chef Kevin A. Rafferty.

Tosci’s has recipes for over 500 different ice cream flavors on file, including crowd pleasing favorites like “Burnt Caramel” and “Ginger Snap Molasses.” It’s Rafferty’s job to add to this list of flavors — creating, refining, and executing new recipes each week.

Rafferty said Tosci’s is special because it constantly searches for new, exotic ingredients and it is dedicated to handcrafting its ice cream.

“One of the things that makes [Tosci’s] more unique than say, Ben and Jerry’s is our production. Everything is done by hand in small batches. In a lot of instances, smaller batches hand done result in a better quality product,” said Rafferty.

Rafferty joined Tosci’s staff as the first-ever production manager around three months ago. He was chosen for “his experience as a chef at famous restaurants and ability to

manage a kitchen,” said owner Gus E. Rancatore.

In addition to developing new flavors of ice cream, Rafferty also manages and stocks the kitchen, and fills orders.

Although Rafferty estimates he only spends five to twenty-five percent of his time developing new flavors — depending on how busy he is elsewhere in the kitchen — he says he’s always got new flavors on his mind.

“For the quintessential MIT student,” Rafferty envisions a double espresso flavor with a twist. “It’d have to be something heavy in caffeine with some sort of puzzle ... something to figure out or something to keep the brain busy and make it interesting,” he said.

Rafferty said he heard about Tosci’s ice cream maker position through a Craigslist posting, and thought “What the hell. It’d be interesting to try something different.” Before joining Tosci’s, Rafferty was the executive chef of Great Bay, a seafood restaurant in Kenmore Square that shut down in May.

**Tosci's, Page 13**



DHAVAL ADJODAH—THE TECH

**Kevin A. Rafferty, Toscanini's new ice-cream chef, has invented 26 new flavors of ice cream since joining the staff three months ago. Among his new flavors are “Drunken Three Musketeers” and “B3.”**

## In Short

- ¶ **The produce market will be moving** to its winter location in the TMSC lobby in Stata today. This is the area on the first floor near the information center, where the glass revolving doors are. It will hold regular hours, from noon to 6 p.m. The market will return to the East Campus courtyard on March 30.
- ¶ **Astronaut Michael J. Massimino PhD '92 will be giving a talk on Wednesday** in Killian Hall (14W-111) from 4-5 p.m. Massimino went up to the Hubble Space Telescope in May, and will talk about the mission. He also twitters, and can be followed at [twitter.com/astro\\_mike](https://twitter.com/astro_mike).
- ¶ **A memorial service for physics professor Richard K. Yamamoto '57** will be held this Thursday at the MIT chapel at 1:30 p.m. Yamamoto’s entire career was at MIT, where he studied subatomic particles and weak interactions. He was 74.
- ¶ **Afghan activist Malalai Joya will talk about her**

- struggle for women’s rights this Thursday in 10-250** from 7-9 p.m. Joya, who was elected to Afghan parliament in 2005, is an outspoken critic of corruption in the Afghan government. She has survived four assassination attempts, according to the BBC.
- ¶ **Jeffrey M. Picower, whose charitable foundation donated \$50 million to MIT** and funded the Picower Institute of Learning and Memory, was found dead at the bottom of his pool on Sunday. Picower kept much of his money with Bernard L. Madoff, who was recently convicted of running one of the largest Ponzi schemes in history. An ongoing civil lawsuit accused Picower of being complicit in the Ponzi scheme, and profiting from it. *For more information, see page 14.*
- ¶ **Did you know that over 40 percent of MIT students are virgins?** Look for the sex issue this Friday, when we will be publishing the results of our survey. Don’t forget to submit your first-time stories at [tech.mit.edu/my-firsttime](http://tech.mit.edu/my-firsttime).

### OPINION

Fixing energy is hard.  
Obama didn't give us a plan.

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# WORLD & NATION

## NFL Study of Dementia Has Flaws, Health Experts Say

By Alan Schwarz  
THE NEW YORK TIMES

The NFL and its doctors have consistently dismissed independent studies showing unusual cognitive decline in former players. They insist that a long-term study by the league’s committee on concussions, expected to be published in several years, will be the authoritative analysis.

But that study is fraught with statistical, systemic and conflict-of-interest problems that make it inappropriate to examine the issue, according to many experts in epidemiology, dementia and health policy who assessed the study’s design.

Another voice belonged to a member of the House Judiciary Committee, which will hold a hearing on football brain injuries Wednesday. “Hey, why don’t we let tobacco companies determine whether smoking is bad for your health or not?” said Rep. Linda T. Sanchez, D-Calif., a member of the Judiciary Committee. “It’s a very appropriate metaphor.”

## For Delphi Pensioners, The Union Label Helps

By Mary Williams Walsh  
THE NEW YORK TIMES

Bruce Gump and his neighbors feared for their retirement checks when the federal government took over the pension plans at Delphi, the big auto parts maker where they once worked.

But four months later, Gump finds himself in a far more perilous condition than his neighbors.

On his street, he is the only Delphi worker whose pension benefits may be cut. His neighbors all belong to unions and have received a lifeline in an unprecedented deal related to the government-supervised bankruptcy of General Motors, the onetime parent of Delphi. (GM spun off the parts division as a separate company 10 years ago.)

Gump and some 21,000 other salaried workers and retirees are furious that their roughly 46,000 union co-workers at Delphi have had their benefits restored, apparently with government largesse, and they have not.

“I’m being thrown out with yesterday’s trash,” he said.

The Pension Benefit Guaranty Corp., which insures pension plans, caps the amount of benefits it will pay, using a formula based on age and the type of benefits an employee earned. But in a side arrangement, GM is agreeing to pay special supplements, called top-ups, so that Delphi’s union retirees get everything they were promised.

## A Hypnotizing Hunt Leaves Russians Bewildered

By Ellen Barry  
THE NEW YORK TIMES

Earlier this month, a sodden and unshaven man emerged from the woods near the southern Russian village of Goryachy Klyuch, telling rescuers he spent three nights perched in trees to get away from jackals.

A similar tale came from the taiga near Bratsk, in Siberia, where a 22-year-old man wandered for five days, covering himself with pine boughs at night to ward off frostbite. Eleven time zones to the west, near the Baltic Sea, a search and rescue team found an elderly couple in a swamp where they had spent the night, the wife in what officials described as “a state of panic.”

It happens every mushroom season. Russians are passionate about gathering mushrooms, an ancient pastime they call the “quiet hunt,” and routinely become so hypnotized that they get hopelessly lost. Regional search-and-rescue teams fan out on foot or in helicopters, occasionally enlisting tracking dogsor parachute jumpers, and newspapers retell their stories with gusto.

# Senate Leader Vows to Pursue Public Option

By Robert Pear and David M. Herszenhorn  
THE NEW YORK TIMES

WASHINGTON

The Senate majority leader, Harry Reid, sided with his party’s liberals on Monday and announced that he would include a government-run insurance plan in health care legislation that he plans to take to the Senate floor within a few weeks.

His proposal came with an escape hatch: A state could refuse to participate in the public insurance plan by adopting a law to opt out. Even so, the announcement was a turning point in the debate over how much of a role government should play in an overhauled health care system, and it set the stage for a test of Democratic party unity.

With Republicans united for now in opposition to any bill including a public option, Reid needs support from all members of his caucus — 58 Democrats and two independents — to take up the legislation. Aides said Monday that he appeared to be short of that goal, lacking firm commitments from several members of the caucus.

Should Reid prevail, both houses

of Congress would be poised to act on bills including a government-run plan to compete with private insurers in selling health coverage to consumers. The House is still weighing the details of its approach, but Democratic leaders there have made clear they will include a government plan in their version of the legislation.

Just weeks ago, the prospects for such an approach seemed remote, reflecting all-out opposition from conservatives to what they considered an excessive government role in the economy and a lack of enthusiasm from many moderate Democrats. But the idea has consistently drawn strong support in national polls and has the White House’s backing though not its particularly active public support.

“The best way to move forward is to include a public option with the opt-out provision for states,” said Reid, D-Nev. “I believe that a public option can achieve the goal of bringing meaningful reform to our broken system.”

Reid’s decision was acclaimed by liberal organizations like MoveOn, Families USA and Health

Care for America Now, a coalition that includes labor unions and civil rights groups.

But he lost the one Republican who had given Democratic efforts a tinge of bipartisanship, Sen. Olympia J. Snowe of Maine. She has been pushing for a different approach in which a government plan would become available only if states did not make progress in reducing insurance premiums and covering more of their people.

“I am deeply disappointed with the majority leader’s decision to include a public option as the focus of the legislation,” Snowe said. “I still believe that a fallback, safety-net plan, to be triggered and available immediately in states where insurance companies fail to offer plans that meet the standards of affordability, could have been the road toward achieving a broader bipartisan consensus in the Senate.”

Reid and his aides provided few details of his proposal. They said the public plan would be national in scope and would be available on the first day that major provisions of the health care legislation take effect, in 2013.

# Engaging in War Is Now Part Of Germany’s Afghan Mission

By Nicholas Kulish  
THE NEW YORK TIMES

KUNDUZ, AFGHANISTAN

Forced to confront the rising insurgency in once peaceful northern Afghanistan, the German army is engaged in sustained and bloody ground combat for the first time since World War II.

Soldiers near the northern city of Kunduz have had to strike back against an increasingly fierce campaign by Taliban insurgents, while carrying the burden of being among the first units to break the German taboo against military combat abroad that arose after the Nazi era.

At issue are how long opposition in Germany will allow its troops to stay and fight, and whether they will be given leeway from their strict rules of engagement to pursue the kind of counterinsurgency being advocated by U.S. generals. The question now

is whether the Americans will ultimately fight one kind of war and their allies another.

For Germans, the realization that their soldiers are now engaged in ground offensives in an open-ended and escalating war requires a fundamental reconsideration of the country’s principles.

After World War II, German society rejected using military power for anything other than self-defense, and pacifism has been a rallying cry for generations, blocking allied requests for any military support beyond humanitarian assistance. German leaders have chipped away at the proscriptions in recent years, in particular by participating in airstrikes in the Kosovo war.

Still, the legacy of the combat ban remains in the form of strict engagement rules and an ingrained shoot-last mentality that is causing signifi-

cant tensions with the United States in Afghanistan.

Driven by necessity, some of the 4,250 German soldiers here, the third-largest number of troops in the NATO contingent, have already come a long way. On Oct. 20, they handed out blankets, volleyballs and flashlights as a goodwill gesture to residents of the village of Yanghareq, about 22 miles northwest of Kunduz. Barely an hour later, insurgents with machine guns and rocket-propelled grenades ambushed other members of the same company. The Germans fought back, killing one of the attackers, before the dust and disorder made it impossible to tell fleeing Taliban from civilians.

“They shoot at us and we shoot back,” said Staff Sgt. Erik S., who, according to German military rules, could not be fully identified. “People are going to fall on both sides. It’s as simple as that. It’s war.”

# WEATHER

## Peak Color

By Brian H. Tang  
STAFF METEOROLOGIST

The end of October is usually when the Boston area sees the peak autumn colors, and this year is no different. Aided by the recent chilly nights, the transition to the colorful landscape that New England is so famous for has accelerated in recent days. It appears that peak color in the urban areas is approaching, and these next 7–10 days will likely feature the best combination of color and minimal leaf drop. If you have a chance, be sure to enjoy the colors before they fade. Popular spots that are a short distance from campus include the Arnold Arboretum, Middlesex Fells, and Blue Hills.

Of course, it helps tremendously for viewing the colors if the weather stays as nice as it was yesterday. While we will avoid the extreme variability of snowflakes to sudden warmth and powerful winds that bracketed last week, there will be a storm lurking nearby tomorrow. It’s a fast mover and most of the rain should stay to the south, but there will likely be nuisance showers beginning in the morning and becoming more numerous during the afternoon and evening. The remainder of the week looks mostly sunny with temperatures near normal before a potentially more potent storm moves in for the first part of the weekend.

**Extended Forecast**

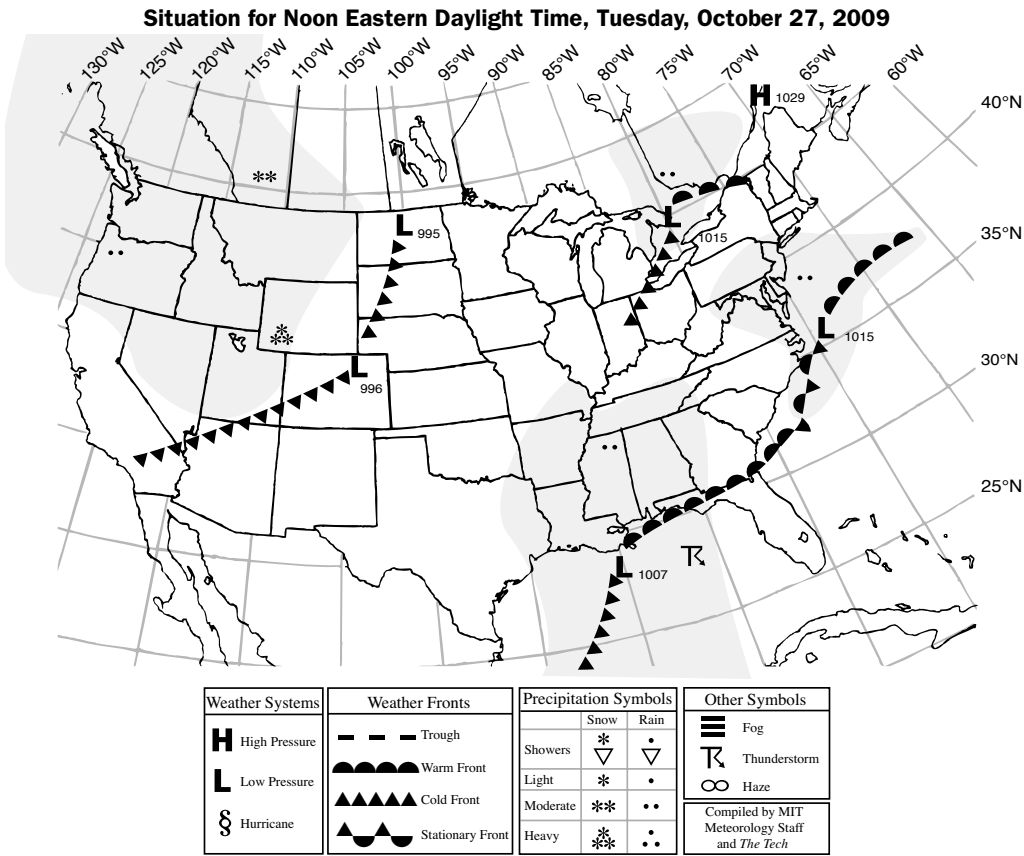
**Today:** Partly cloudy. SE winds 5–10mph. High 55°F (13°C).

**Tonight:** Increasing clouds. Light NE winds. Low 48°F (9°C).

**Tomorrow:** Cloudy with showers, most likely in the afternoon. NE winds 10–20 mph. High 53°F (12°C).

**Thursday:** Partly cloudy. High 54°F (12°C).

**Friday:** Sunny. High 61°F (16°C).





# Ex-Chief of AIG Is Busy Building a New Venture

**By Mary Williams Walsh**  
*THE NEW YORK TIMES*

Maurice R. Greenberg, who built the American International Group into an insurance behemoth with an impenetrable maze of on- and off-shore companies, is at it again.

Even as he has been lambasting the government for its handling of AIG after its near collapse, Greenberg has been quietly building up a family of insurance companies that could compete with AIG. To fill the ranks of his venture, C.V. Starr & Co., he has been hiring some people he once employed.

Now, Greenberg may have received some unintended assistance from the U.S. Treasury. Just last week, the Treasury severely limited pay at AIG and other companies that were bailed out by taxpayers. That may hasten the exodus of AIG’s talent, sending more refugees into Greenberg’s arms, since C.V. Starr is free to pay whatever it wants.

“Basically, he’s just starting ‘AIG Two’ and raiding people out of ‘AIG One,’” said Douglas A. Love, an insurance executive who has also hired AIG talent for his company, Investors Guaranty Fund of Pembroke, Bermuda.

While America generally loves stories of entrepreneurs making a comeback, Greenberg’s success may be at the expense of taxpayers. People who work in the industry say that if he is already luring AIG’s people, he may soon be siphoning off its business and, therefore, its means to repay its debt to the government.

“To me, it’s just going to be a matter of time before the valuation of what he’s building is greater than the valuation of AIG,” said Andrew J. Barile, an insurance consultant in Rancho Santa Fe, Calif.

AIG, meanwhile, is struggling to regain its footing. The recipient of the biggest taxpayer bailout in history, it has been ordered by the government to restructure, unwind its complex derivatives and pay back the taxpayers.

At 84, Greenberg remains larger than life. He spent nearly four decades forging AIG out of private companies, devising its Rubik’s Cube structure and building it into the world’s largest insurance group with a \$1 trillion balance sheet. He lost most of his fortune when the company nearly collapsed last year.

And now, he appears to be start-

ing over.

He was ousted from AIG in an accounting scandal in 2005, and has insisted that he was not responsible for the problems that almost brought down AIG last year — extremely risky trading in derivatives by its financial products unit. At the moment, C.V. Starr does not have a financial products unit, a spokesman for Greenberg said.

After he was pushed out, Greenberg fought bitterly with AIG over how to untangle assets that they both laid claim to. Over the summer, he won, earning the rights to \$4.3 billion in AIG stock that he had removed from an unusual offshore retirement plan. The company had argued that he had improperly cashed out the stock and used the money to finance new business ventures that were competing with his former company.

With his battles with AIG now largely resolved, Greenberg is free to use that money as the seed for his latest ventures. Just this month, C.V. Starr leased 141,000 square feet of space — three stories — on Park Avenue in Manhattan, in one of Lehman Brothers’ old headquarters.

# Pilots Who Missed Airport Cite Computer Distraction

**By Micheline Maynard and Matthew L. Wald**  
*THE NEW YORK TIMES*

Any employee at a company that has gone through a merger knows how distracting it can be when the new owner imposes new rules. That distraction, not a nap, was what two Northwest Airlines pilots insist caused them to fly far beyond the Minneapolis airport last week, federal investigators reported Monday.

The pilots told the National Transportation Safety Board that they missed their destination because they had taken out their personal laptops in the cockpit, a violation of airline policy, so the first officer, Richard I. Cole, could tutor the captain, Timothy B. Cheney, in a new scheduling system put in place by Delta Air Lines, which acquired Northwest last fall.

The interim report from the NTSB ran counter to theories in aviation circles last week that the two pilots might have fallen asleep or were arguing in the cockpit. Each pilot denied that in separate interviews with the safety board that totaled more than five hours.

“Both said they lost track of time,” the report stated. It also said that the pilots had heard voices over their cockpit radios but ignored them.

The pilots passed breath analysis tests to check for alcohol use, and had had a 17-hour break between the San Diego trip and their previous flight.

Delta, in a statement Monday, hinted strongly that the lapse could cost both men their jobs. “Using laptops or engaging in activity unrelated to the pilots’ command of the aircraft during flight,” the statement said, “is strictly against the airline’s flight deck policies and violations of that policy will result in termination.” The pilots remain suspended until completion of the airline’s investigation.

The impromptu tutoring session apparently caused Cole and Cheney to ignore air-traffic controllers for about 90 minutes on Wednesday night, and forget to begin preparations for landing in Minneapolis. Instead, the plane flew about 110 miles to the skies over Eau Claire, Wis., as more than a dozen air-traffic controllers in three locations serving Den-

ver and Minneapolis tried to get the plane’s attention.

The North American Aerospace Defense Command readied four fighter jets and had them on “runway alert” in the vicinity, according to a command spokesman, Mike Kucharrek.

A flight attendant finally called the cockpit when the plane did not begin its scheduled descent to Minneapolis to ask when it might arrive, according to the report. The plane, which carried 144 passengers and three flight attendants as well as the two pilots en route from San Diego, made a loop in the sky over Wisconsin and returned to Minneapolis, where it landed safely.

Industry executives and analysts said the pilots’ behavior was a striking lapse for such veteran airmen. The two pilots have a total of 31,000 flying hours of experience between them. Cheney, of Gig Harbor, Wash., has been at Northwest since 1985, while Cole, of Salem, Ore., has been at the airline since 1997.

Robert W. Mann Jr., a veteran industry analyst, said of the pilots’ explanation: “It’s inexcusable.”

# Iraq Blast Toll, Worse Than Feared, Includes Children

**By Rod Nordland**  
*THE NEW YORK TIMES*

BAGHDAD

Iraqi officials reached a tentative agreement on a new election law on Monday, even as workers continued to recover more bodies from the wreckage of Sunday’s bomb attacks, including an uncertain number of children from two day care centers.

The toll climbed to as many as 155 dead, with more than 500 wounded and an unknown number still missing.

The violence appeared to have jolted members of parliament into action: Calling the bombings an attack on Iraq’s national unity government, Iraqi leaders swiftly responded with a compromise agreement on a new election law that had eluded them for weeks and threatened to delay national elections scheduled for January.

The Iraqi Defense and Interior ministries began investigating security breaches that allowed the bombings to occur, Defense Minister Abdul-Kader Jassem al-Obeidi said in a statement.

The bombs were in a two-ton van and a minibus, which passed multiple security checkpoints to reach their targets, according to Baghdad’s governor. Trucks are banned from Baghdad’s streets during daylight hours unless they have special permits that are issued by the military and checked at every roadblock.

“There was a ton of explosives in each vehicle, and the blasts were extremely powerful,” said Brig. Gen. Stephen R. Lanza, spokesman for the U.S. military in Iraq. “The crater was roughly 18 feet in diameter.”

The extent of the damage was even worse than initially feared, with three major government buildings destroyed rather than the two reported earlier.

The first blast, from the van, which gutted much of the Ministry of Justice, did similar damage to the Ministry of Municipalities and Public Works, located just across Haifa Street, a busy four-lane thoroughfare.

The second blast, from a Kia minibus, which happened a minute later, destroyed the Baghdad Provin-

cial Council building a quarter-mile away.

At the first two government buildings, both seven stories high, workers were scouring the tangled debris of collapsed ceilings, floors and walls on Monday.

Iraqi official statements put the overall death toll at 99, but an official in the Ministry of Interior, speaking on the condition of anonymity because he was not authorized to speak to the press, said it had reached 155.

There were conflicting reports of the deaths of children at the two day care centers in the Justice Ministry building, one for ministry employees and the other for employees of the Supreme Judicial Council. A police official stationed at the Ministry of Justice, Hussein Issa, said 30 children had been killed, but other officials said the number was much smaller. A final toll was impossible to determine Monday because so many of the children’s parents were still among the missing.

The Associated Press reported that 24 children had died.

## Newspaper Circulation Falls Almost 10 Percent

**By Richard Pérez-Peña**  
*THE NEW YORK TIMES*

The two-decade erosion in newspaper circulation is looking more like an avalanche, with figures released Monday showing sales down about 10 percent since last year, depressed by rising Internet readership, price increases, recession and papers intentionally shedding unprofitable circulation.

In the six months ended Sept. 30, for several hundred papers that had reported to the Audit Bureau of Circulations, weekday sales were down 10.6 percent compared to the same period last year, and Sundays were down 7.5 percent, the bureau said. That means that the industry sold about 44 million copies a day — fewer than at any time since the 1940s.

The figures join a list of indicators of the industry’s health — like advertising and newsroom headcounts — that, after years of slipping, have accelerated sharply downward, as newspapers face the greatest threat to their survival since the Depression. Through the 1990s and into this decade, newspaper circulation was sliding, but by less than 1 percent per year. Then the rate of topped 2 percent in 2005, 3 percent in 2007 and 4 percent in 2008.

## Ex-Guerrilla Emerges as Leader in Presidential Vote in Uruguay

**By Alexi Barrionuevo**  
*THE NEW YORK TIMES* MONTEVIDEO, URUGUAY

A Socialist former guerrilla fighter known for speaking his mind emerged the clear winner of Sunday’s election for president of Uruguay but did not muster enough votes to avoid a November runoff, in what analysts said was a referendum on the current leftist government.

Jose Mujica, a Socialist senator who spent 14 years in prison for waging an urban guerilla war against the military dictatorship here, was the candidate of the governing Broad Front coalition, whose tenure has improved economic conditions here. The Broad Front’s incumbent president, Tabare Vazquez, remains popular and Mujica was considered the front-runner.

Mujica’s top challenger was Luis Alberto Lacalle, a conservative former president and the candidate of the National Party.

With 99 percent of the votes counted, the Broad Front had 47.5 percent of the votes; the National Party was trailing with 28.6 percent and the Colorado Party had 16.7 percent, according to the Electoral Court of Uruguay.

Mujica needed more than 50 percent of the vote to avoid a run-off election on Nov. 29. Voters on Sunday also rejected a much-discussed initiative to remove amnesty for human rights abuses under the 1973-85 dictatorship.

## CNN Last in TV News on Cable

**By Bill Carter**  
*THE NEW YORK TIMES*

CNN, which created the all-news cable network almost 30 years ago, hit a new competitive low with its prime-time programs in October, with three of its four programs between 7 and 11 p.m. finishing fourth and last among the cable news networks, according to Nielsen Media Research.

It was the first time that the programs had ever performed that poorly against their news network competitors. October was also the third month in the last year that CNN as a network finished fourth behind the three other cable news networks in prime time with the audience that the networks rely on for advertising sales.

In an era when the relationship between the White House and Fox News is making headlines, and when the ideological rivalry between MSNBC on the left and Fox News on the right is commanding the spotlight, CNN has little from a news angle to stir consistent interest from viewers.

CNN’s position in prime-time programming, the most profitable area of the cable news business, has been undermined by the strength of competing channels that focus largely on opinion-based programs during those hours.

CNN itself is responsible for one of those competitors, having installed some popular opinionated hosts at its sister network HLN, formerly Headline News, which has emerged in recent months as a stronger performer in prime time than CNN itself.

## Colleges Are Pushed to Convert Loan System

**By Tamar Lewin**  
*THE NEW YORK TIMES*

Congress has not given final approval to legislation ending federal subsidies for private student loans for college. But Education Secretary Arne Duncan sent a letter Monday to thousands of colleges and universities urging them to get ready to use the government’s Direct Loan Program in the 2010-11 school year.

The House of Representatives last month passed the Student Aid and Fiscal Responsibility Act, expanding the government’s direct lending and ending the current program of government subsidies and loan guarantees for private lenders. Under that law, all colleges would be required to convert to the federal Direct Loan Program by July 1.

But the Senate has yet to take action on the legislation.

Meanwhile, most of the nation’s 5,000 colleges and universities have not taken the necessary steps to convert to direct federal lending. The letter, sent to some 3,000 campuses that have never used direct lending, was an effort to prod them into action.

“Some campuses are thinking they’ll wait until Congress acts, but to wait is to endanger loan access for students,” said Robert Shireman, the deputy undersecretary of education.

In the past year, Shireman said, about 500 institutions have switched from the subsidized program, the Federal Family Education Loan program, into direct federal lending.

A year and a half ago, when uncertainty in the financial markets threatened the availability of private loans, Congress passed a stopgap law to ensure that families with financial need could get student loans, even if their college was not in the federal direct loan program.

# OPINION



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## Corrections

A May 4, 1999 article about notable MIT alumni incorrectly said that Eastman Kodak Company founder George Eastman was an MIT alumnus. Although a George L. Eastman graduated from MIT in 1870, he is not the same as the George Eastman who founded Eastman Kodak. The Eastman who founded Kodak is of course the same one who contributed over \$20 million in cash and stock to MIT in the first two decades of the 20th century; his gifts, mostly made in the name of “Mr. Smith,” helped MIT build its Cambridge campus. He did not attend college. A reader recently pointed out this error.

Friday’s photo with the caption “Acoustic guitarist and songwriter JamesLevi ‘Levi’ M. Schmidt ’10 opened the new concert series ‘Live! @ the Coffeehouse’ on Oct. 16.” was incorrectly labeled. The subject of the photo is Alejandro F. Arambula ’12, and he a guitarist in the Guitar Knives.

The photo of varsity rifle on page 9 of Friday’s issue was incorrectly attributed to Aaron Sampson ’10. The correct photographer is Aaron Thom ’11.

Mahatma Gandhi’s name was misspelled at the end of Justin Cannon’s opinion piece on the Nobel Peace Prize. It is spelled “Gandhi,” not “Ghandi.”

## Letters To The Editor

### Mother Teresa Did Not Deserve Her Peace Prize, Either

The list of Nobel Peace Prize laureates includes some amazing forces for good, but as Justin Cannon correctly pointed out in an letter on Friday, some awards have been far more dubious. I am displeased to see Mother Teresa go without mention in Cannon’s summary of less-than-deserving winners. Her “work undertaken in the struggle to overcome poverty and distress” (to quote the Nobel committee’s justification for her award) is largely misunderstood. She did not help cure the poor. She did not help the sick of India. All she did was provide rudimentary beds for the dying.

She believed that, regardless of her victims’ religion, suffering would bring them closer to Jesus. There was so much wrong with the “care” she and her ilk provided that there is hardly room to go into detail here — reusing needles, withholding pain medication, etc. Her “hospitals” existed only to maximize suffering and convert people to Christianity. As the poor died in her arms, she would baptize them if they were not already Christians.

From where in this mess of suffering and proselytizing did even the notion of a nomination for the Peace Prize arise? Her clinics were not health care facilities. She operated in blatant violation of the Hippocratic Oath. Her death houses were simply centers of agony and last-minute forced conversions. Come to think of it, it’s no wonder that she has been beatified. Still, the Nobel Prize committee should know

better than the Catholic Church, and it is unfortunate that the public eye still views her as a force for good.

Ahmed Hussain ’12

### Obama’s Carbon Footprint

How many tons of carbon did Air Force One and all of the other massive jets that were used to bring Obama and his entourage, limos and SUVs for the secret service and motorcades, pump into the atmosphere in order for him to give his speech about how we have to change our ways and how we are destroying the earth? What a hypocrite. Why didn’t he take the train?

Marvin H. Frank ’51

## A Teachable Moment: Reflections on The President’s Visit to MIT

Thomas A. Kochan

Friday was a typical MIT day. Typical in a very special sense: MIT showed the President of the United States what goes on here every day. But it often takes extraordinary events like a Presidential visit (or some equivalent unplanned crisis/opportunity) for those of us who work here to recognize the full power and capacity of the Institute. Friday was such a day and it is worth reflecting on why this event took place here, how the community mobilized to organize the visit on six days notice, and what we learned about ourselves in the process.

First, why did the President choose MIT as the venue for a major speech on energy policy (aside from the fact that his main purpose in coming to Boston was to support the re-election efforts of his friend Governor Deval Patrick)? Maybe it is because five years ago, upon her arrival at MIT, President Susan Hockfield identified energy as a strategic initiative. She could not have done so if she would not have found a strong mix of faculty and students around the Institute already working on energy issues of one sort or another. The MIT genius lies in figuring out ways to mobilize this talent and present it to the external world as a unified force, in this case under the umbrella of the MIT Energy Initiative (MITEI). As she said in her introductory remarks in Kresge, now nearly 20 percent of the faculty is involved in some aspect of energy research. And this doesn’t count the additional faculty and staff now devoted to various green jobs and sustainability projects. MIT is at its best when it mobilizes the talents of researchers and students from

multiple disciplines to focus on meeting the biggest challenges facing society. That’s what we illustrated to the President and the external world on Friday.

The day made apparent that MIT researchers are not cloistered souls toiling away in their laboratories apart from the real world of policy and practice. President Hockfield and many MIT faculty and staff spend countless days and hours promoting science and research in Washington, in partnership initiatives with industry, and in work around the world with international agencies and non-governmental organizations. President Obama mentioned that two of our faculty, Eric Lander and Ernie Moniz, are on his Council of Advisors on Science and Technology. Mens et Manus is alive and well.

Then there is the unique MIT research style. I chuckled, as I suspect many of you did, when I saw the front page picture in Saturday’s *Boston Globe* of the President looking with interest over the shoulder of Professor Alex Slocum as Alex, decked out in one of his finest Hawaiian shirts, demonstrated his wind experiment that will someday, perhaps sooner than we think, be part of the world’s clean energy options. Alex’s response to a congratulatory note said it best: “I am just being what we all r, a geek having fun chatting about what we love and believe in—whether it’s a new freshman, or the supreme leader, it’s what MIT is all about.”

Then there was the Kresge event. One of the advantages of having to assemble there two hours before the President’s speech is that I could put on my social scientist hat and see who was there and how the assembled mix of faculty, students, staff, members of the MIT

Corporation, White House guests, local politicians, and members of MIT’s unions interacted. This mix was itself a statement of what we mean when we use the term “the MIT community.” In this case it might have been the extended community.

The first thing I noticed was we were all treated with equal and appropriate suspicion by the Secret Service as we queued up to enter. No VIP exceptions here. For example, I happened to be in line near the Provost, President of the Graduate Student Association, Dean of Students, Dean of Undergraduate Education, and staff members from several student service groups. We all waited our turn and submitted to the same security checks upon entering Kresge. I liked that example of egalitarianism. It is good to remind ourselves that in the eyes of the real world, we are members of a single community.

Milling around during the two-hour wait for the President gave us all a chance to “network.” In those two hours, I talked to members of the Corporation and members of Service Employees Local 615, the largest union of our staff on campus. I chatted with the local politicians, some of whom are running for office and some whom are part of the state government. I met the Mayor of Cambridge. A special highlight was seeing colleagues Phil Thompson and Dayna Cunningham MBA ’04 from Urban Studies and their two young sons. Phil and Dayna are very active in the White House’s green jobs’ initiatives and so the White House allocated them enough tickets to bring their family and a number of students from MIT’s

Kochan, Page 5

### Opinion Policy

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# A Defense of State Capitalism

*Why Socialism Is Not the Answer*

Ryan Normandin

Recently, the well-known liberal filmmaker Michael Moore released his new movie, *Capitalism: A Love Story*. As the sarcastic title suggests, this movie was produced in an effort to portray the American capitalist system as an illogical system that is based on an emotional attachment rather than reasoning. It blames capitalism for the recent economic collapse, skyrocketing unemployment, and widespread suffering in general. As a solution, Moore advocates socialism. No surprises there.

In order to prevent confusion in this article, I am going to begin with a description of what variants of each economic system entail.

The three main components of capitalism are private ownership, competition, and the profit motive. Pure capitalism, called “laissez-faire” (hands off) capitalism, is the type of economic system that existed when Rockefeller’s Standard Oil and Carnegie’s railroad monopoly came to power, earning them tens of millions while the employees were paid barely enough to survive.

State capitalism allows for the components of capitalism but regulates the markets in an attempt to protect the population as a whole. Socialism does not allow for private ownership, has prices set by the government, and lacks a profit motive.

A tethered form of socialism is called democratic socialism, where private citizens own retail, service industries, etc. while the government handles energy, means of transportation (airlines), and other widely-used “products.”

In his movie, Moore adopts a Marxist philosophy, stating more than once that he believes that there will be a revolution of the “have-nots” against the “haves” for a similar reason that Marx did. In America today, 1 percent of the population controls 95 percent of the wealth, which doesn’t leave a whole lot for you and me.

Moore’s movie is extremely well-done, presenting a well-documented account (from his perspective, of course) of why and how the fi-

nanacial sector melted down. He goes back all the way to Reagan, blaming him for beginning to lift restrictions on banks and big businesses. From there, he examines how the Treasury Department is run by countless employees of Goldman Sachs who spend their time trying to deregulate the banks. These are not no-namers either; their CEO was former Treasury Secretary Hank Paulson. Then he shows how predatory lending created toxic assets that tore the lives of families apart.

Soon after, the banks collapsed and requested their \$700 billion for such critical things as vacations to resorts and spas, along with bonuses for the CEO’s who just ran their companies into the ground. In what I considered one of the stronger moments in the movie, Moore asks Elizabeth Warren, Congressional Oversight Officer where the bailout money is. After a brief pause, she responds, “I don’t know.” That would be because the Treasury Department didn’t require the banks to reveal what they were doing with it. Who was Treasury Secretary at the time? Oh, right, Hank Paulson, former CEO of Goldman Sachs. Between his explanation of the financial mess and firsthand interviews with struggling families, Moore argues that capitalism is just not worth it. Socialism must be the answer.

If only it were so simple.

Quite frankly, Moore’s argument defeats itself. He argues against all capitalism by citing these last few years of deregulation as a reliable example of what capitalism in America is supposed to be. Like Moore, I believe that pure capitalism is extremely immoral and harmful to society as a whole; essentially, it is a fancy term for “greed” and “thrive at the expense of everybody else.” But America has had a system of state capitalism. Only in the last few years has it been corrupted by an unholy alliance of banking executives and greedy, selfish politicians. Thus, America began a shift towards the

evils of pure capitalism.

But if you have a few weeds in your garden, do you burn your entire garden to cinders? The answer to that is supposed to be no. Maybe you built the garden for the sole purpose of burning it, being a pyromaniac. But that’s a rare case. I hope. The solution to a shift towards corruption is not to leap to the other end of the spectrum and endorse socialism. The solution is to impose new regulations on the financial sector.

Stop credit card companies from devouring their clients with rates higher than my pile of homework, stop banks from telling people that

it’s perfectly logical to buy a \$750,000 home when they’re making a few bucks an hour, and it might be a good idea for presidents to appoint people who aren’t going to work against the interests of the American people in favor of Goldman

*Moore argues that capitalism is just not worth it. Socialism must be the answer.*

*If only it were so simple.*

Sachs. Just saying.

But there’s one more thing that all you voters out there can do, and if you’re reading this, you can probably vote. After all, I doubt that many 6-year-olds would open up a newspaper to read “A Defense of State Capitalism.” So if you’re not a child prodigy, kindly stop voting in politicians who take bribes from special interests who manipulate Congress as their plaything. It makes me sick to see politicians pretend to argue for regulations and fair policies among the financial sector when they’re on a special VIP list (“Friends of Angelo”) from Countrywide to receive special deals with waived fees. I was under the impression that this kind of thing was called “bribing” and was illegal. Maybe I’m just naïve, but if this kind of thing is not illegal, it should be.

At this point, it should be easy to see that state capitalism was not responsible for the financial collapse. But why choose state capitalism over socialism? There is no competition, prices are set to what the government thinks is low, and all the hard-working people in Amer-

# Many Prepared for Obama

*Two Hundred Staff Did an Outstanding Job*

Kochan, from Page 4

Community Innovators Lab/Green Hub team. Their son James recorded the event on his camera for his classmates in the School within a School unit at Brookline High, the same program two of my sons and Sloan School Deputy Dean Richard Locke attended. So we were able to record three generations of links between SWS and MIT!

Another favorite moment was when some unknown photographer took a picture of several undergraduate and graduate student leaders and me. The collaborative relationship among faculty, students, and the administration is a unique strength of the MIT governance system. That picture captured the spirit we need to sustain as we chart the future of MIT.

And finally, another often unseen and under-appreciated part of the MIT community’s work was apparent on Friday: the staff that organized and coordinated the event on such short notice. Just think of the logistical and security challenges the team assembled on the preceding Sunday faced with five days to go. They had to work with the White House and Secret Service on arrangements — not easy groups to negotiate with. I have a little experience dealing with both groups and they tend to negotiate from positions of power. Some things (thankfully) are simply non-negotiable. You don’t negotiate much with the Secret

Service. They tell you what you need to do and you do it, whatever the cost and inconvenience.

Kirk Kolenbrander assembled a team of approximately 200 staff people to arrange and coordinate lab visits, transportation and related logistics, MIT security and facilities alterations (and spruce ups), and the distribution of the 200 tickets to the speech made available to MIT. (Yes, the White House controlled the rest of them.)

This team did an outstanding job for MIT and we should all recognize their good work on our behalf. This is especially the case now since so many members of our administrative staff are feeling the direct stress and impacts of the budget cuts, layoffs, and restructuring of their work. The faculty in particular needs to recognize the important and excellent work our staff does behind the scenes to make MIT a great place to teach, study, and innovate.

My purpose in reflecting on the day is not just to recount an historic moment for MIT but to bolster our confidence for tackling together what lies ahead. Only by recognizing that none of us can do our best without the support and commitment of the diverse components that make up the MIT community will we come through this year of budget reductions and planning for the future stronger and more unified than before. That for me was Friday’s lesson.

Thomas A. Kochan is the Chair of the Faculty.

# Obama at MIT

*What the President Didn’t Say in His Kresge Address*

Ethan Solomon

Amidst the concrete barricades blocking off Amherst Alley, snipers on the Z-Center, the motorcade hustling past our dorms on Memorial Drive, and of course, the Presidential podium in Kresge, it’s easy to forget that Barack Obama came to MIT to deliver a message. It may not have been a very profound message, nor something we haven’t heard before, but since it happened here its worthwhile to think about and ask: What did the President tell us? Perhaps more importantly: What *didn’t* he tell us?

In his Friday column in *The Tech*, Gary Shu identifies the same problem that Barack Obama highlighted in his Kresge address — the oft-mentioned “political realities” that always get in the way when important things need to get done. “The professional grant writers called ‘professors,’” writes Shu, often capitalize on “academic fads” to bolster research funds when the research hasn’t fundamentally changed. Like nanotech and biotech, Shu argues that “clean energy” may fall among these fads.

Put on top of that the “political realities” Obama spoke about — “There may be plenty of room for debate as to how we transition from fossil fuels to renewable fuels — we all understand there’s no silver bullet to do it,” the President said. But expectedly and yet still disappointingly, he failed to offer any solution of his own on how to ease this enormous transition or how he plans to combat the forces in Congress and industry that will work against it. So when at the academic, political, and economic levels there are enormous roadblocks to migrating America to a clean and sustainable energy infrastructure, Obama takes his 20 minutes at MIT to encourage research and innovation when that isn’t the real problem.

That “debate” Obama talked about is the

debate that needs to be happening right now. Americans’ extraordinary ability to innovate in science and technology is not in question. Our ability to compromise with each other and craft effective national policy is in question. And it’s precisely the President’s job to direct this debate, listen to both sides, and make a decision. Nothing’s going to magically fall into place and not even the threat of catastrophic climate change is enough to spur Congress to act quickly and intelligently on this issue.

The burden therefore falls on the President’s shoulders to decide how to implement clean energy reforms using technology developed right here at MIT as well as fight the ineffectualness of Congress and combat the

national “pessimism” surrounding this issue. He should learn from his mistakes in pushing through healthcare reform — he must use all the political capital he has left, rally the Democratic Party (that means you, filibuster-proof majority in the Senate) around his leadership and most of all, be tough. Sweet words and praise for American solidarity in research and innovation will do nothing to change the battle-lines drawn in Congress.

How can Obama be this kind of leader? How, even down to the university-campus level, when so many people do not have genuine energy reform at heart, can Obama hope to effect the kind of change he is calling for? Simple — forget the “bipartisan” route and use the political resources he has now. Obama should use Vice President Biden’s influence, know-how and connections in the Senate to help unite the Democratic Party around clean-energy goals. He should assume the role of a party leader, indeed an expansion of his traditional powers as “chief executive.” But would this just be another example of the 2008 campaign’s dreaded “politics-as-usual”? If Obama actually manages to pass real reform, then no, certainly not.

*Obama takes his 20 minutes at MIT to encourage research and innovation when that isn’t the real problem.*

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# CAMPUS LIFE

## Brouhaha Rhythm

### Gripping the Bull by the Husk

By Michael T. Lin  
*CAMPUS LIFE EDITOR*

The other day, I had the unique experience of trying to open a coconut for personal consumption. It began with a butter knife and misplaced optimism. It ended with three sharp cooking knives, a multitool saw blade, a claw hammer, multiple nails of varying sizes, and one still-unrefreshed columnist. Oh, and a lounge so covered in coconut entrails that it could probably have been used as a set for a tropical-plant remake of *The Silence of the Lambs*.

When I first purchased the coconut, I had two images in my head. One involved making horse-clipping sounds and prancing around campus debating swallow migration patterns. The other was a memory of a childhood summer in Belize during which drinking straight from the coconut one of the most refreshing and singular experiences of my young life. Unfortunately, my knowledge of coconut anatomy was so limited, both then and now, that I had to be explicitly enlightened as to the proper means of processing a coconut. As it happens, it typically involves less leisurely straw-sipping and more slicing and scooping — and only if all goes according to plan.

For those of you who aren't familiar with coconuts, the one I bought had already had the outer shell removed, so that my adversary consisted of a fibrous, soft husk surrounding the hard brown nut used for cooking, bowling, and

tropical brassieres of questionable authenticity. Straight off the tree, a typical coconut has several layers, with the water and meat in the center to the outer green shell. Basically, it's like an onion. A sadistic, adamantine onion.

It is with some small shame that I admit that I am so lazy with regards to food that I have on occasion purchased sliced apples while half a dozen whole apples sat uneaten in my room. Not only am I letting down my parents' sense of

never be a good idea, I took the coconut into the lounge, where I found a friend who was willing to lend me his high-grade cutlery. It was lucky for me he stuck around out of morbid curiosity, because he ultimately lent me the rest of my arsenal as the night went on. How close I came to borrowing a rotary saw, I don't care to say.

Long story short, the proper means of opening a coconut, depending on what you're trying to achieve, can mean cutting a small hole to drink from using a straw (if you're my uncle) or pulling off the husk and tapping at the nut with a boat propeller until it separates neatly into cloppable halves (if you're Survivorman).

It does not, however, entail hacking and slashing at the husk to create a bald spot, hammering holes in either side to drain the water over the course of fifteen minutes (which wasn't even all that refreshing — I ended up buying an orange soda from the downstairs vending machine), perforating the coconut with even more nail holes like some bizarre tropical crucifixion, prying it half an inch open with a multitool, then bashing it with a hammer until it caves in. I don't think the coconut farmers are going to be asking me to write an instruction manual on the process anytime soon.

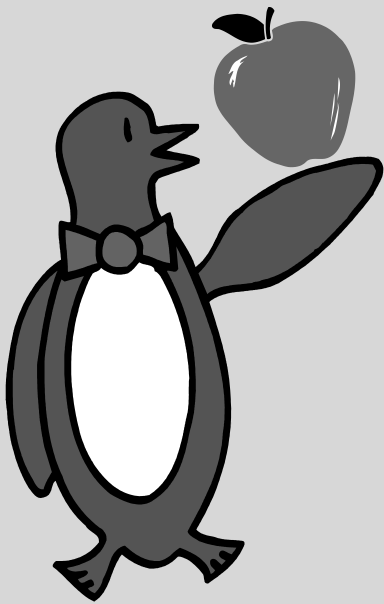
Now, if you'll excuse me, I have some shopping to do. At least pistachios and cherries have reasonably tasty rewards for the amount of effort required to prepare them — even more so for the associated ice cream flavors.

*Straight off the tree, a typical coconut has several layers. Basically, it's like an onion. A sadistic, adamantine onion.*

thrift, I'm disappointing the environment, too. So when I tell you that I really, really wanted to get to the middle of this coconut, I hope you understand exactly how dedicated (and thirsty) I was. Desperate times (brought about by my insufficient motivation to go out and buy milk or juice) called for desperate measures — which brings me back to the hammer and multitool.

At first, I was just interested in the coconut water, having fallen victim to an evening case of being lip-smackingly parched. Figuring that taking a blade to a liquid-filled sphere on the same desk where my computer sat was not and would

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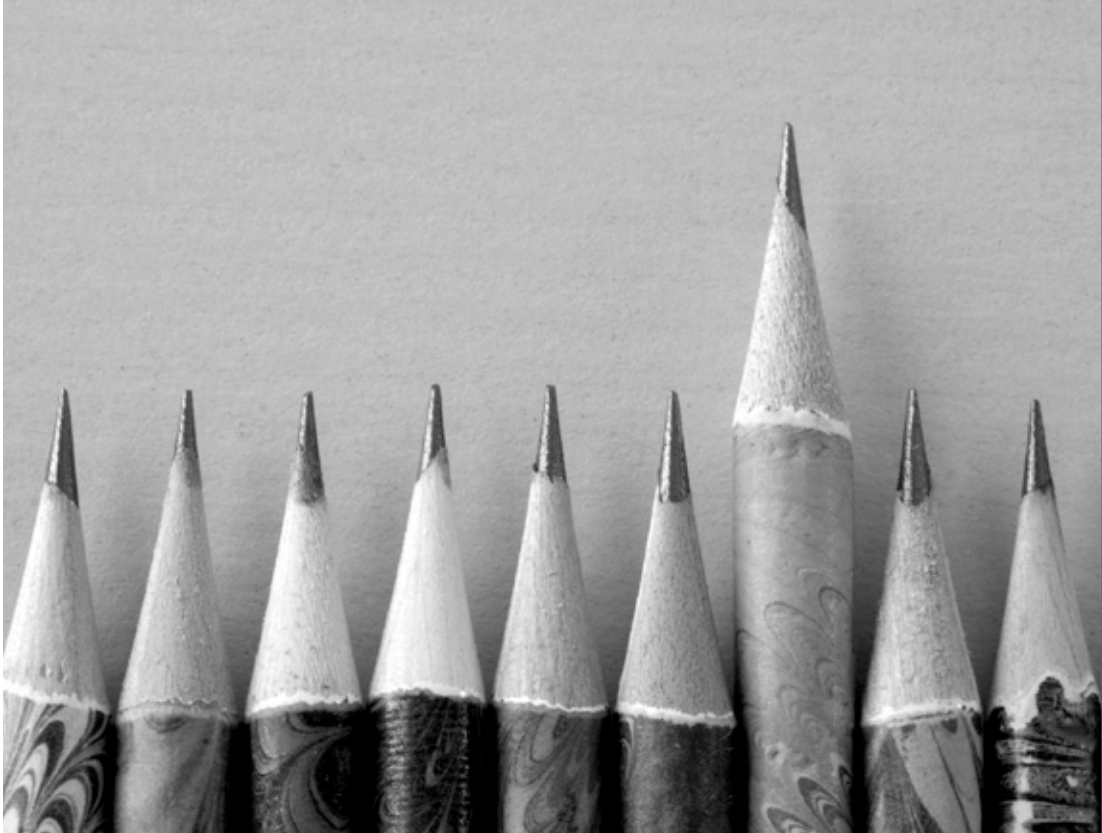
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# ARTS

CONCERT REVIEW

## Bel Canto with Flair

Opera Boston Performs Rossini's 'Tancredi'

By Sudeep Agarwala  
STAFF WRITER  
Opera Boston  
Cutler Majestic Theatre  
Friday, October 23, 2009

For all of its expert craft, there are many non-trivial reasons Gioachino Rossini's *Tancredi* isn't one of his more popular operas. Large rifts gape in the plot line (Since when is Amenaide pregnant? Why doesn't Argirio recognize the renown Tancredi when he joins his army? Why does Amenaide write a letter that is unaddressed and almost purposefully misleading?), while the drama portrays an affected and protracted moral code that holds very little in common with modern experience.

But opera begs some suspension of disbelief for the very least and, even at its very best, doesn't require a moral tale at its very core. More than anything else, an opera is about the music and, in Rossini's *bel canto* era, stunningly acrobatic singing.

Opera Boston's vivid performance of Rossini's work on Friday, October 23, 2009 provided much more. Artistically, Carol Bailey's minimalist setting of Rossini's opera in 1935 Europe was both subtle as well as imaginative. Bailey's recasting subtly added elegant highlights to the storyline while remaining unobtrusive; a stoic backdrop of brick walls and the occasional baroque flourish provided a perfect canvass for the drama: Greco-Persian robes were traded for mafioso suits and fascist uniforms for military roles, civilian characters dressed in understated, yet strangely stately, interpretations of pre-war Europe.

Although at times overzealous or teetering on the edge of rhythmic stability during more melismatic arias, Gil Rose's orchestra was vibrant and rang true to Rossini's textures and musical colors, effectively enhancing Rossi-

ni's sense of drama and, when appropriate, pathos without detracting attention from the stage. Also notable were choral passages — particularly by the men — that managed both fluid tone and remarkably balanced voicings. Also of note are both Linda Osborn-Blaschke (fortepiano) and Guy Fishman (cello) for a particularly effective interpretation Rossini's late-classical/proto-Romantic continuo — a harrowing task often over-blown or underplayed to the point of distraction by other companies.

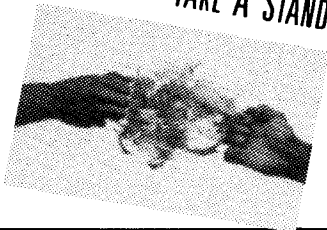
And distracting from the action on the stage would be a crime; Opera Boston's production of *Tancredi* marks the Boston debut of Polish contralto Ewa Podle in the title role. Podle's contralto was large and dramatic, dipping down to a rich baritone at its very lowest while maintaining the flexibility and flourish of a well-trained mezzo-soprano in its upper range. This is perhaps what was so particularly moving about Friday's performance: Soprano Amanda Forsythe's radiant tone and incredible flexibility in coloratura provided a sharp contrast to Podle's rich contralto. Arias that featured both were breathtaking — these virtuosically executed passages were performed with an ear towards what Rossini could only have dreamed of.

Baritone DongWon Kim's Boston debut as the general Orbazzano was also a clear success; Kim's baritone was rich and flexible — powerful without becoming lumbering or overbearing. Tenor Yeghishe Manucharya, as Argirio, seemed a bit more difficult; although clearly comfortable in the lower range, Manucharya's voice became thin and constricted in the higher registers, often poorly disguising necessary shifts into his falsetto. Regardless, all four voices of the central drama became seamlessly blended in their ensemble work, culminating in a nuanced and poignant portrayal of the drama and pathos of Rossini's rarely performed work.



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JEFF GUO—THE TECH



JEFF GUO—THE TECH



AARON THOM

# Obama Endorses MIT's Clean Energy Efforts

1	4		10
	5	8	11
2	6		12
3	7	9	

The MIT campus welcomed President Barack Obama on Friday. The President delivered an address about clean energy in Kresge following a tour of several MIT labs. Students, supporters, and protesters awaited the President outside of 77 Mass. Ave.

1. President Obama chats amicably with Massachusetts Senator John F. Kerry as they both step out of Air Force One. The President's private aircraft touched down at Logan airport at about 11:30 a.m.

2. Crowds gather in front of 77 Mass. Ave. awaiting the arrival of the President.
3. President Obama shakes hands with members of the audience following his speech. MIT was given around 200 tickets to allocate; Kresge's maximum capacity is around 1,000 people.
4. Photographers and video crews pack up supplies after President Obama's address.
5. President Obama's limousine transported him from Building 13 to Kresge Auditorium via Memorial Drive for his address.
6. A supporter of Lyndon LaRouche holds up a painting of the 2008 presidential candidates as she awaited the arrival of Obama. "Why is Obama blue?" a bystander asked. "You go in there and ask him!" she laughed, pointing toward Kresge.
7. President Obama shows off his newly acquired T-shirt after learning about the energy storage research conducted by Professor Alexander H. Slocum '82. MIT President Susan Hockfield accompanied Obama during his tour through the labs at MIT.
8. President Obama encourages the United States to be leaders in energy innovation during his speech.
9. Members of the MIT community, sponsored by Sustainability@MIT, assemble in the shape of <350 to signal their support for achieving 350 ppm or less of CO<sub>2</sub> in the atmosphere, a number commonly cited as a "safe" level by scientists and politicians.
10. Demonstrators stirred up heated arguments with bystanders as they awaited the arrival of President Obama. This demonstrator had another hand-lettered sign that read "Arrest obama for war crimes."
11. Students who could not get into Kresge gathered in the Stratton Lounge to watch Obama's speech on their computers.
12. Demonstrators on the steps of 77 Mass. Ave. show their support for the Massachusetts Cape Wind project and other policies to combat global warming.



JESSICA LIU—THE TECH



LUKE SHARRETT—THE NEW YORK TIMES

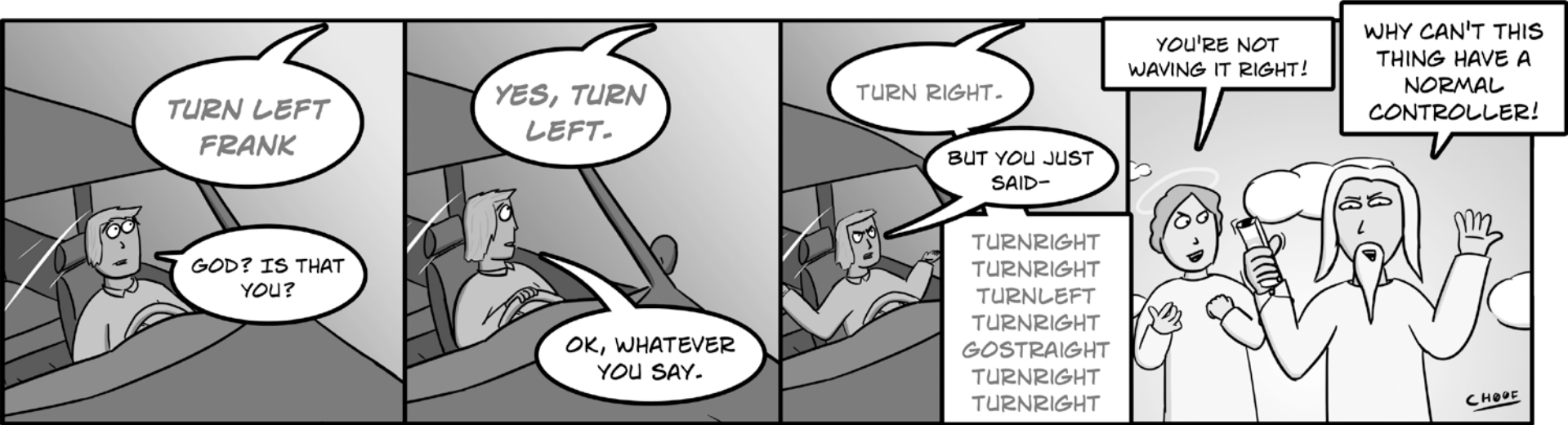


AARON THOM



Steal My Comic

by Michael Ciuffo



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Doonesbury

BY GARRY TRUDEAU

Dilbert® by Scott Adams

Crossword Puzzle

Solution, page 12

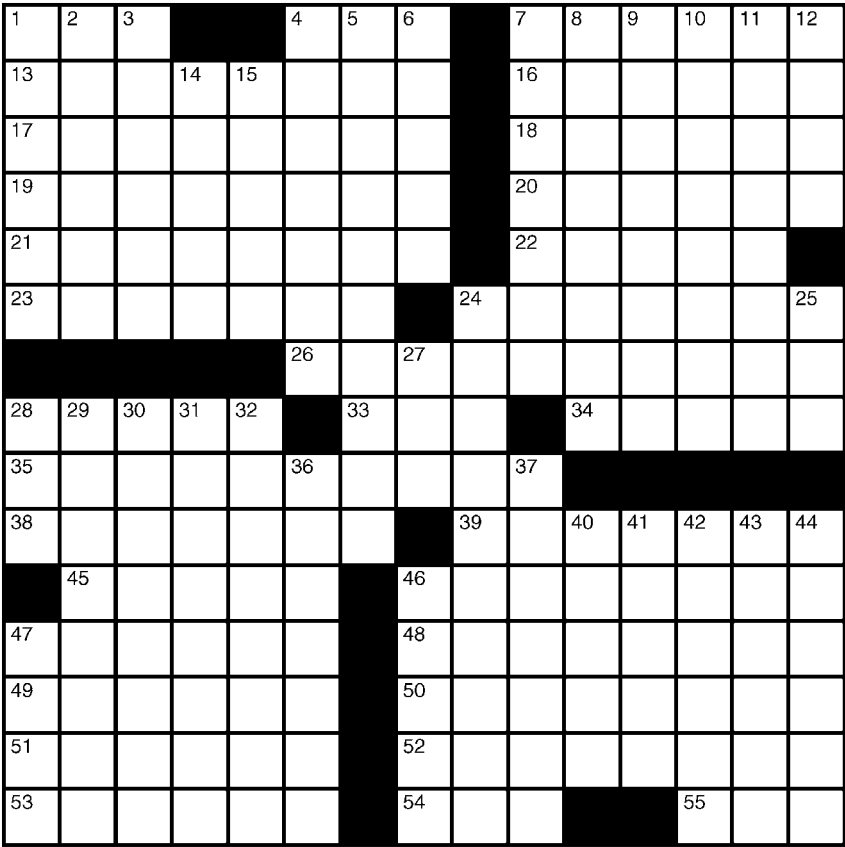
ACROSS

- 1 Therapeutic resort  
4 Russ. jetfighter  
7 Zero of “The Producers”  
13 One of Rome’s seven hills  
16 Entrance to Hades  
17 Mythological female runner  
18 Makes roof repairs  
19 Light verse poet: var.  
20 Audience shouts  
21 Noisy pigs  
22 Boutonniere’s place  
23 Part of EST  
24 Brings to mind  
26 Not a main thoroughfare  
28 Prongs  
33 Red or Black  
34 Throat infection, in brief  
35 Rink denizens  
38 Some hunting dogs  
39 Systematic procedure

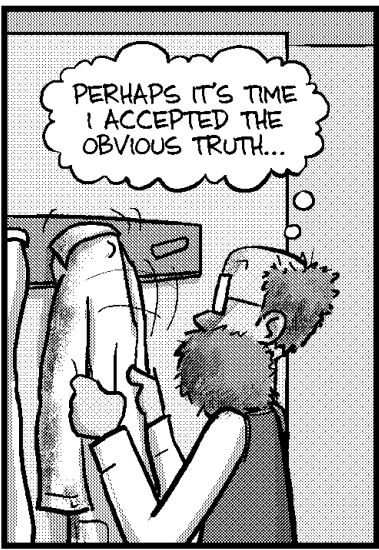
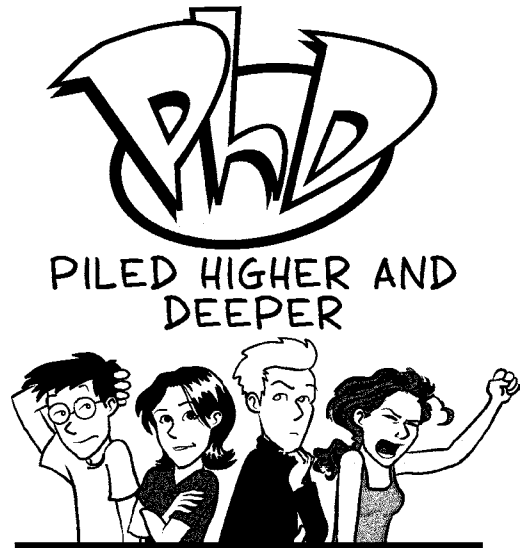
- 45 Milk not to cry over?  
46 View of a wide area  
47 Meatpacking company  
48 Twists together  
49 Fly  
50 Ways out  
51 Right-hand pages  
52 Close by  
53 Grooms like a cat  
54 ‘60s radical grp.  
55 Defunct pol. entity

DOWN

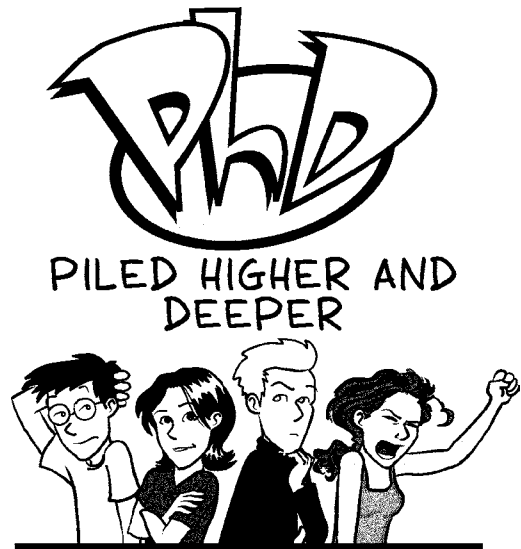
- 1 Meager  
2 Copper coating  
3 Cottonwood trees  
4 Coin makers  
5 Certain physicians  
6 Transmission components  
7 Old playground game  
8 Chews the scenery  
9 Single out  
10 Voyager  
11 Signer-upper  
12 Profit’s opposite  
14 Warning signal  
15 Refinement  
24 Put in a different order  
25 The Racer’s Edge  
27 Ruby of “A Raisin in the Sun”  
28 “\_\_ the wind and nothing more”  
29 Freezes, like a lake  
30 Cost after deductions  
31 Approximation  
32 Anatomy lab figure  
36 Lacking guile  
37 Nissan models  
40 One of the Champions  
41 March 17th celebrants  
42 Parsonages  
43 Muslim VIPs: var.  
44 Former Egyptian leader  
46 Parts of hammers  
47 Stringed instrument with seven pedals







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$H_0: \mu_1 = \mu_2 ?$

where,

$H_0$  : the Dull Hypothesis

$\mu_1$  : significance of your research

$\mu_2$  : significance of a monkey typing randomly on a typewriter in a forest where no one hears it.

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The test involves computation of the  $F'd$  ratio:

$$F'd = \frac{\text{sum(people who care about your research)}}{\text{world population}}$$

This ratio is compared to the F distribution with I-1,  $N_T$  degrees of freedom to determine a  $p$ (in your pants) value. A low  $p$ (in your pants) value means you're on to something good (though statistically improbable).

Type I/II Errors

The Analysis of Value must be used carefully to avoid the following two types of errors:

- Type I: You incorrectly believe your research is not Dull.
- Type II: No conclusions can be made. Good luck graduating.

Of course, this test assumes both Independence and Normality on your part, neither of which is likely true, which means *it's not your problem*.

Bonus Crossword

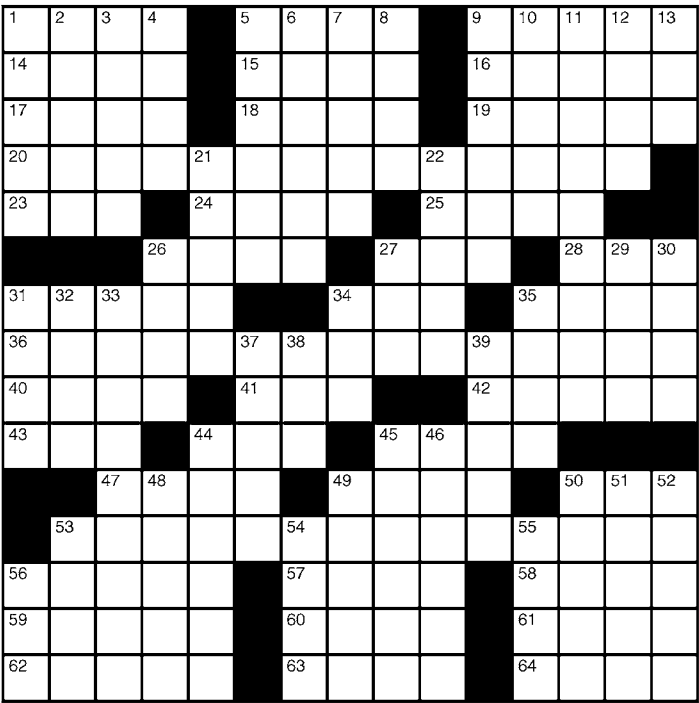
Solution, page 13

ACROSS

- 1 Seethe  
5 Con artist's project  
9 Where Franco ruled  
14 Writer Ambler  
15 Mata \_\_  
16 Cellist Casals  
17 Seaweed extract  
18 "Picnic" playwright  
19 Map within a map  
20 Message on an envelope  
23 9-digit ID org.  
24 Collar type  
25 Actor Penn  
26 GI mail drops  
27 Tie-breaker periods: abbr.  
28 Actress Leoni  
31 Betel palm  
34 Tavern brew  
35 Close securely  
36 Message on a postcard  
40 Behold: Lat.  
41 QB Marino  
42 Dated  
43 Black or White  
44 Shoebox letters  
45 Pack away  
47 Gloomy aura  
49 Detailed design, for short  
50 \_\_ de mer  
53 Message on a package  
56 \_\_ Hawkins Day  
57 Tracks to NYC  
58 Palo \_\_, CA  
59 Sanctify  
60 Capital of Samoa  
61 British gun  
62 Selling point  
63 New York baseball team  
64 Yarn

DOWN

- 1 Phobias  
2 Yens

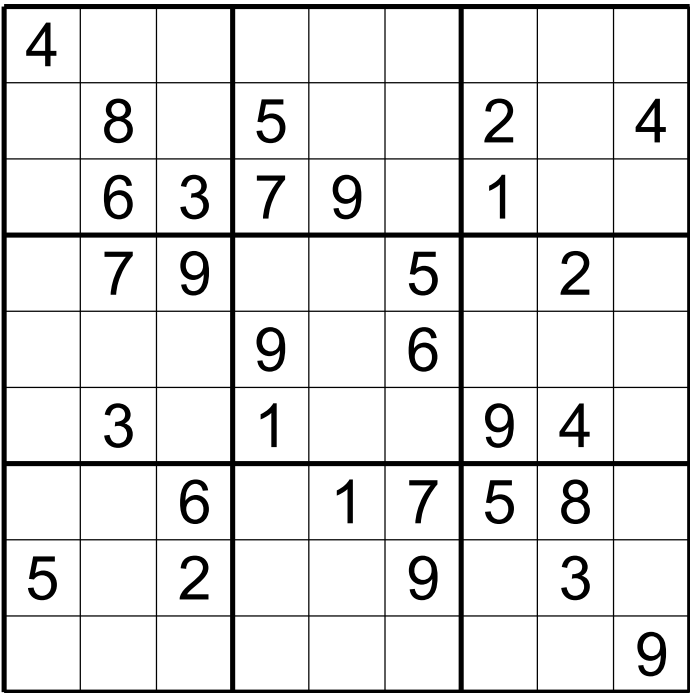


- 3 Sporty Mazda  
4 Hosiery hue  
5 Japanese religion  
6 Pound's poetry  
7 Inert gaseous element  
8 \_\_ van der Rohe  
9 Porcupine's defense  
10 Bamboo lover  
11 No-shows  
12 Robert of "The Sopranos"  
13 "To be or \_\_ to be..."  
21 Discharge a debt  
22 Organic compound  
26 Pang  
27 Corrida cry  
29 I'm all \_\_!  
30 Opposite of aweather  
31 Bowls over  
32 Eastern staple  
33 Reckless antics  
34 Barley bristle  
35 "Pygmalion" playwright  
37 "Island of the Blue Dolphins" author  
38 Abu Dhabi loc.  
39 Historic period  
44 Most senior  
45 Soul  
46 Neon fish  
48 Ouzo flavoring  
49 Pilfer  
50 Valletta's nation  
51 Soviet farm  
52 Sierra \_\_  
53 Painter Frans  
54 Jack of oaters  
55 Play group  
56 Govt. \$ support grp.

Sudoku

Solution, page 13

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.



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# Virus Battery Highlights Obama's Tour Through MIT

**Obama**, from Page 1

introduce a cap-and-trade system for greenhouse gas emissions.

**Obama visits Bldg. 13, professors present research**

During his pre-speech laboratory tour, Obama saw presentations on high-powered, virus-assembled batteries and solar cells from Professors Angela M. Belcher and Paula T. Hammond '84; quantum dot LED lights from Professor Vladimir Bulovic; offshore wind turbines from Professor Alexander H. Slocum '82; and solar cell concentrators from Professor Marc A. Baldo.

"It was amazing just to have him coming here to an MIT laboratory and to see him engage in science," said Hammond. "When he came to the group, he was incredibly warm and engaging. He was very excited about the virus battery," she said.

Hammond said that she and her collaborator Belcher, like the others, didn't find out that they would be presenting their research for the President until only a few days before Friday. Despite the short deadline, she said that the group was still able to pull together a new poster presentation and two demonstrations focusing on their virus-assembled batteries and solar cells for their presidential display.

Belcher described that the group was presented with the challenge to assemble a presentation that was "easy to describe, had no chemicals, and no water." To meet this task, Belcher said a team of several graduate students and postdocs "worked around the clock for two days." They showed of one of their virus batteries powering an LED, and one of their virus-assembled solar cells driving a fan. The fan had "Yes We Can" written on one of the blades.

Belcher said the president really enjoyed the inscription. "That's my campaign slogan," he said, breaking into a big smile.

Hammond said it was "interesting how quickly [Obama] understood the technology," and that he asked several great questions such as "How can biology solve these problems?"

Although each group had only roughly five minutes to present, Belcher said that her group also tried to emphasize the research's applications for "reducing soldiers' load, creating flexible solar panels,

and creating high power batteries for hybrid vehicles."

At the end of the other groups' presentations, Belcher said that she handed Obama a card with the periodic table of elements. "In case you're ever in a bind and need to calculate a molecular weight, here's a periodic table for your wallet," she said. The other side of the card had a chart of amino acids.

Obama later referenced this gift in his speech. "This tells you something about MIT — everybody hands out periodic tables ... what's up with that?"

Although none of the faculty who presented their research to the present could also watch the speech from Kresge due to timing and security reasons, the professors largely agreed that the speech and the president was on par with expectations.

"I thought the speech was right on point. First of all, it gave a great sense of the power of innovation and the possibilities of both fundamental and developmental research," said Hammond. "I also loved the fact that he referenced each of the research displays, described them quite well, and showed excitement."

"I think that's unique in a president or any national leader," Hammond said.

"He's just a warm, friendly human being," Slocum said. "I've met plenty of plastic politicians. Obama is just real."

Bulovic, who presented the ultra-efficient quantum dot light technology, said he was very uplifted by the president's speech on energy and honored to present his lab's research.

"There are many labs at MIT that have equally filled their purpose, so we feel especially honored for this opportunity," he said.

**Crowds gather, Obama cracks jokes**

After the lab tour, Obama arrived at Kresge shortly after 12:30 p.m. Cecilia R. Louis '10, a member of the Chorallaries, sang the national anthem. Louis said that she was informed just two days in advance that she would be signing the national anthem for the presidential speech. "I may or may not have turned in my pssets late [that week]," she said.

Both Hockfield and Moniz gave brief opening comments. Moniz praised Obama's "commitment to integrating sound science and critical analysis."

Obama began his speech with a light jab at his alma mater. "It's always been a dream of mine to visit the most prestigious school in Cambridge, Massachusetts," he said to laughter and cheers. After a pause, he added "hold on a second — certainly the most prestigious school in this part of Cambridge, Massachusetts."

Most students did not get tickets, but many gathered near Kresge to try and catch a glimpse of the President. A few people also showed up to protest, drawing attention to human rights violations, the Afghanistan war, healthcare reform, and abortion. When Obama's motorcade came down Memorial Drive around 12:30 p.m., there were screams and pointing as the crowd ran down Mass. Ave. to see the procession.

Later, in Kresge, Obama would return the enthusiastic greeting. "You just get excited being here and seeing these extraordinary young people and the extraordinary leadership of Professor Hockfield because it taps into something essential about America — it's the legacy of daring men and women who put their talents and their efforts into the pursuit of discovery."

**Student reactions**

As one of the few MIT students to get a ticket to see Obama's speech, co-president of MIT's Energy Club Timothy D. Heidel G said Obama's visit "speaks to how far the entire MIT community has come in establishing itself as a leader in energy."

Forgan McIntosh G, the other co-president of the club, echoed Heidel's remarks, but added that he would have liked to hear Obama "talk with greater specificity" about climate legislation. Obama mentioned the Senate climate bill, but only in terms of how he thought it would "transform" America. He did not say that the bill would introduce a cap and trade system for greenhouse gases, nor did he use the terms "carbon" or "greenhouse gas" in his speech.

Obama spoke for about 20 minutes, then came down from the podium to shake hands with MIT faculty and students. He left promptly after 1 p.m. to attend a \$500-a-head fundraiser for Massachusetts Governor Deval Patrick.

U.S. Senator John Kerry (D-Mass.) and Patrick were both in at-



**An excited MIT student awaits the arrival of President Obama in front of 77 Mass. Ave on Friday.**

tendance.

Louis, who sang the national anthem for the event, said she appreciated how the speech "catered to people working hard to improve efforts in energy considerations." After the speech, she got to shake his hand. Louis said Obama told her he was "so glad" she was there. "I almost died," she said.

Some students who couldn't get tickets took more creative measures to see the president.

McCormick resident Hamsika Chandrasekar '13 said that she and several friends tried watching the motorcade from the East Penthouse's view, but they were eventually asked to leave by Secret Service personnel.

"We thought it was so great," said Chandrasekar. "We were all set to video tape entire procession and all the sudden they were like "guys off the roof, Secret Service, off the roof!"

Instead, Chandrasekar said that the group of McCormick residents relocated to the dormitory's dining hall to watch the webcast of the speech. From the windows of the dining hall, she said that they were able to catch sight of the president leaving in his limo.

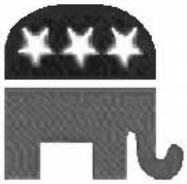
"I think I had more fun being outside of it than waiting in line and being in Kresge for 20 minutes," she said.

John A. Hawkinson and Jessica J. Pourian contributed reporting.

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#### Solution to Crossword

from page 10

S	P	A		M	I	G		M	O	S	T	E	L
P	A	L	A	T	I	N	E	A	V	E	R	N	O
A	T	A	L	A	N	T	A	R	E	T	A	R	S
R	I	M	E	S	T	E	R	B	R	A	V	O	S
S	N	O	R	T	E	R	S	L	A	P	E	L	
E	A	S	T	E	R	N		R	E	C	A	L	L
				S	I	D	E	S	T	R	E	E	T
T	I	N	E	S		S	E	A		S	T	R	E
I	C	E	S	K	A	T	E	R	S				
S	E	T	T	E	R	S		R	E	G	I	M	E
	S	P	I	L	T			P	A	N	O	R	A
H	O	R	M	E	L			E	N	T	W	I	N
A	V	I	A	T	E			E	G	R	E	S	S
R	E	C	T	O	S			N	E	A	R	H	E
P	R	E	E	N	S			S	D	S		S	S

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# Designing New Ice Cream Flavors Is Serious Business

Tosci's, from Page 1

### Unique and Unusual Flavors

In his past three months at Tosci's, Rafferty has developed over 26 different flavors of ice cream — some of his favorites are “Drunken Three Musketeers” (bourbon flavored ice cream and Three Musketeers candy bars) and “B3,” consisting of brown sugar, brown butter, and brownies.

Rafferty said he might follow up on the popular “B3” flavor with a “C4” flavor which he envisions would include chocolate chips and caramel ice cream with cookie crumbs.

Because of his extensive training as a chef on the “hot side,” Rafferty often turns to ingredients used less commonly in the ice cream industry such as miso (fermented soy bean paste), Japanese mint leaves, and the spice caraway. From these ingredients, Rafferty has created such flavors as “cranberry and lemon Japanese mint sorbet” and “pickled plum sorbet.”

Tosci's churns about 50 flavors a week, according to Rancatore. Every week's menu is a combination of traditional flavors as well as some new ones. Though Tosci's is known for its adventuresome flavors, Rancatore said they never make “stupid” flavors.

“We don't make shark or chicken turkey,” Rancatore said, although he said Tosci's has made flavors involving avocado and garlic.

But even those odd ingredients worked. “Avocado is a popular flavor in Latin America and parts of the Pacific” for it's rich and creamy flavor, said Rancatore. “Garlic is certainly unusual,” but he notes that black garlic ice cream is a popular dish in Ko-

rea when served with oysters. “Sometimes ice creams can be savory. The most unusual flavors are probably made by the best chefs intent on achieving exotic surprises,” said Rancatore.

Rafferty likes that people in Cambridge are open to new flavors. “Even with some of the more exotic flavors, we almost always have someone that likes them,” Rafferty said.

### Holiday and seasonal themes

Sometimes, Rafferty gets inspiration from seasonal ingredients and the holidays. He's currently work-

ing on an apple pie flavor for the fall, although keeping the graham cracker crumbs crisp and the apples from frosting in storage has proven to be problematic, he said. For Halloween he's contemplating a “goodie bag” flavor that combines lots of classic Halloween candies.

Rancatore said Tosci's also makes a champagne sorbet for New Years and hamentashen for the winter Jewish holiday Purim.

In the fall, Tosci's makes a Concord grape sorbet.

In the summer, Rancatore said that he likes to take advantage of the local peaches and berries.

### What the job entails

Rancatore said ice cream makers need to have “supertasting” abilities, a knack for thinking up tasty new concoctions, and the ability to reproduce their hits over and over again. They are artists.

“Ice cream makers need to follow recipes and extrapolate. They should be curious about ice cream and food. They should eat and read and be ready to take advantage of a seren-

dipitous moment,” says Rancatore.

Rancatore says Tosci's rarely has more than three ice cream makers beside himself at a time. The number peaks during summer.

“Everyone wants to make ice cream but very few of the people who work here [actually make ice cream],” Rancatore said. “I think it is important for a small number of people to regularly make ice cream.”

With the most recent addition of Rafferty, Tosci's currently has three ice cream makers, including Rancatore.

Rancatore thinks that there might be some correlation between ice cream making capabilities and the ability to perform classic music. “I have thought that classical music students might be a good place to find ice cream makers,” he says. “They understand notions of incre-

mental and constant improvement and believe that good music is a result of merging spontaneous authenticity and an inherited framework or tradition.”

Rancatore noted that when the store first opened in 1981, several of the best employees were women rowers from Boston University. They followed directions well and had the “extra benefit of being strong and possessing a lot of stamina.”

“So maybe what we need [in an ice cream maker] is a New England Conservatory student who rows and is a supertaster,” Rancatore joked.

### The scoop on MIT

Several MIT students and faculty have helped develop Tosci's ice cream flavors over the years.

S. Adam Simha '88 finalized the recipes for the flavors Burnt Caramel

and also Dark Chocolate. Sinha later became an award-winning bread maker and now owns MKS Design, which Rancatore said made most of the furniture in Tosci's.

Rancatore said that the ice cream shop has only ever made one flavor named after a person — Paul Sloven-ski, a track and field coach a MIT.

“One day I was in the store when a short, intense man came up to me and said with determination that he wanted a flavor to be named after him,” Rancatore said. “Instead of saying ‘we don't do that,’ I asked him what his name was and he said ‘Sluggo.’” Thus, Chocolate Sluggo was born.

Rancatore says Chocolate Sluggo is a light Belgian Chocolate layered with dark Cocoa pudding” plus almonds, chocolate chips, and Hydrox cookies. “I'll make it some Thursday,” he said.

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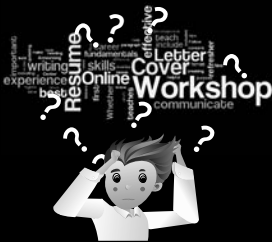
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School of Science contact: Bendta Schroeder, x4-5691, [bendta@mit.edu](mailto:bendta@mit.edu)

### Solution to Sudoku

from page 11

4	5	1	6	2	8	7	9	3
9	8	7	5	3	1	2	6	4
2	6	3	7	9	4	1	5	8
6	7	9	3	4	5	8	2	1
1	2	4	9	8	6	3	7	5
8	3	5	1	7	2	9	4	6
3	9	6	4	1	7	5	8	2
5	1	2	8	6	9	4	3	7
7	4	8	2	5	3	6	1	9

### Solution to Bonus

from page 11

F	U	M	E	S	C	A	M	S	P	A	I	N
E	R	I	C	H	A	R	I	P	A	B	L	O
A	G	A	R	I	N	G	E	I	N	S	E	T
R	E	T	U	R	N	T	O	S	E	N	D	E
S	S	A	E	T	O	N	S	E	A	N		
		A	P	O	S	O	T	S	T	E	A	
A	R	E	C	A	A	L	E	S	E	A	L	
W	I	S	H	Y	O	U	W	E	R	E	H	E
E	C	C	E	D	A	N	P	A	S	S	E	
S	E	A	E	E	E	S	T	O	W			
		P	A	L	L	S	P	E	C	M	A	L
H	A	N	D	L	E	W	I	T	H	C	A	R
S	A	D	I	E	L	I	R	R	A	L	T	O
B	L	E	S	S	A	P	I	A	S	T	E	N
A	S	E	T	M	E	T	S	T	A	L	E	



# Cheung Goes Door to Door as Race for City Council Nears Finish

Cheung, from Page 1

creased” as Election Day draws nearer, Cheung said, “but so have our efforts.”

Cheung’s campaign recently ran a series of Google and Facebook ads to promote awareness among students. The Facebook fundraiser made close to \$1,000.

Cheung’s mornings begin at 7 a.m., when he goes to T stations to hand out flyers. During the day, he spends hours on the phone trying to raise money and knocks on doors talking to residents. He still goes to class. In the evening, when it’s too late to knock, he leaves campaign literature on doorsteps. He usually doesn’t finish until 11 p.m., when he heads back to check e-mail and update his website.

“The homework is suffering” Cheung admits. “Campaigning takes up a ton of time. It’s pretty much 24/7.” He’s had to request a lot of extensions on work. “Professors have been really understanding and supportive of me,”

Cheung said.

Once he’s elected, he said, the work will not be as “intensive.”

“If I can campaign and not fail out of school, I can definitely be on City Council and do fine in school,” he said.

Cheung encourages students who are registered to take the time to vote. “Even though people think of themselves as not from around the area, you live here. Things that happen in the city affect us, from crime to using the T ... You’re part of a bigger community. Even if you don’t mean to, you do have an effect on the community.”

Onaopemipo O. Abiodun ’13 said she thinks that Cheung can win, even though she has never heard of him.

“MIT is smart,” she said, “He wouldn’t run if he didn’t know what he was doing.”

Election Day is November 3rd. MIT’s voting location is in Kresge Auditorium. A complete list of polling locations can be found online at [http://www.cambridgema.gov/special/polling\\_locations.pdf](http://www.cambridgema.gov/special/polling_locations.pdf).

# MIT Donor and Madoff Investor Picower Had Pool Heart Attack

By Diana B. Henriques  
THE NEW YORK TIMES

An autopsy shows that Jeffrey M. Picower, a prominent philanthropist accused of reaping about \$7 billion in profit from Bernard L. Madoff’s vast Ponzi scheme, drowned on Sunday after having a heart attack.

Picower was found at the bottom of the swimming pool at his ocean-front mansion in Palm Beach, Fla. The Palm Beach police confirmed the cause of death on Monday after an autopsy by the Palm Beach County medical examiner.

Picower had been under growing pressure for months as he faced litigation over his disputed role in the Ponzi scheme operated by Madoff, who was arrested in December and pleaded guilty in March to operating a long-running fraud that cost thousands of victims billions of dollars.

The Palm Beach police reported that emergency personnel had been called to the Picower home at 12:09 p.m. on Sunday by Picower’s wife, Barbara, who said she had found her husband at the bottom of the pool at the family home. He could not be

revived and was pronounced dead at 1:30 p.m. at Good Samaritan Medical Center in West Palm Beach.

The Picowers’ lawyer, William D. Zabel, said that Picower, who was 67, had a history of heart problems and had Parkinson’s disease.

Picower was a well-known Wall Street investor and had a professional and personal relationship with Madoff that went back several decades. Besides investing their personal assets with Madoff, the Picowers had also entrusted him with money belonging to their personal foundation, which was forced to close in December, after Madoff’s arrest.

Initially, the Picowers were notable as victims of the Madoff fraud. But in May, the bankruptcy trustee seeking assets for Madoff victims sued the Picowers in federal court in Manhattan to recover more than \$5 billion they withdrew from their Madoff accounts over the years. In a subsequent court filing, the trustee raised that figure to roughly \$7 billion.

The trustee, Irving H. Picard, had asserted in a court filing that Picower had trouble getting his money

back from Madoff at least as early as September 2003 and, on several occasions, was able to retrieve only “a fraction of the amount” he had requested from Madoff.

That failure to pay also should have put Picower on notice that Madoff’s money-management business was a fraud, Picard asserted.

The Picowers had emphatically denied any knowledge of the Ponzi scheme and insisted they were deceived by Madoff, as were federal regulators and thousands of other investors.

They said recently that the scandal and its aftermath had become a punishing experience, both emotionally and physically.

“We always have been private people, and having all this play out in the media has taken a big toll on our health,” the couple wrote in response to questions submitted earlier this month by The New York Times.

“Although we are stricken that one man could bring such misery to so many, we have been touched by the support from our friends and family.”

The Picowers had initiated settlement discussions with the trustee “to avoid years of extensive litigation,” according to Zabel. Since Picard can still pursue his claims against Picower’s estate and other family members, both the litigation and the settlement talks are expected to continue. As of last week, “progress was being made” toward a negotiated settlement, according to Zabel.

Others including Stanley Chais, a Los Angeles investment manager whose clients lost millions in the fraud, have also been sued by the trustee, who asserted that they too should have been suspicious of Madoff’s unusually steady returns.

## Police Log

**Editor’s Note:** Police logs from Sept. 15 through Oct. 13 were not released until Oct. 20.

The following incidents were reported to the Campus Police between Sept. 16 and Sept. 25. The dates below reflect the dates incidents occurred. This information is compiled from the Campus Police’s crime log. The report does not include alarms, general service calls, or incidents not reported to the dispatcher:

Apr. 4: Bldg. 32 (Stata Center), 2:35 p.m., report of ongoing harassment. Investigations report.

Sep. 3: Bldg. 33, 6:00 p.m., larceny of external hard drive.

Sep. 8: Bldg. 3, 1:00 p.m., report of a stolen moped.

Sep. 12: Bldg. 13, 11:00 p.m., report of a stolen camera.

Sep. 16: Bldg. 50, 2:00 a.m., three individuals standing by motor vehicle with broken window; subjects and vehicle check ok.

Sep. 17: Bldg. 2, 3:56 p.m., suspicious activity with a lock.

Sep. 21: Bldg. 35, 10:45 a.m., larceny of a briefcase from office area.

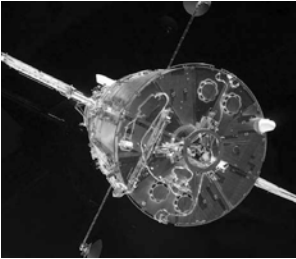
Sep. 22: Bldg. W85, 4:18 a.m., suspicious male in area; Jose Guevara of 30 Harbor Pinot Blvd., Dorchester, arrested for burglary.

Sep. 24: 405 Memorial Drive, 11:16 a.m., wallet stolen from room.

Sep. 24: 77 Mass. Ave, 12:45 p.m., trespass warning issued to suspicious person suspected of a theft.

Sep. 24: Bldg. E40, 5:00 p.m., report of mountain bike locked with cable stolen from the E40 area.

Compiled by John A. Hawkinson



# Astronaut Mike Massimino at MIT

Wednesday, Oct. 28, 2009 4-5pm  
Killian Hall, Building 14

**Veteran Astronaut and MIT Alumnus Dr. Mike Massimino (SM TPP 1988, Engineer ME 1990, PhD 1992) will come to MIT on Wednesday Oct. 28 to talk about his recent work servicing NASA’s Hubble Space Telescope.**

In May 2009 Massimino and six other astronauts boarded the space shuttle Atlantis for a journey that took them 5.3 million miles for a final servicing of the telescope. Massimino and other STS-125 crewmembers conducted five spacewalks to upgrade the Hubble, enabling it to send back spectacular images of the universe well into the next decade. While on the mission the crew captured photographs and video, and Massimino became the first astronaut to ‘Tweet’ from space—sending back updates on the mission through his Twitter feed ([http://twitter.com/astro\\_mike](http://twitter.com/astro_mike)), which has surpassed 1 million followers.

Accompanying Massimino on the mission was a rare book loaned from the MIT Libraries’ collections. The book, a limited edition facsimile of Galileo’s landmark publication *Sidereus Nuncius* (Starry Messenger), was chosen to coincide with the 400th anniversary of Galileo’s astronomical research, the first recorded planetary observations using a telescope.

In his talk, Massimino will discuss his work and show images and video from the mission. He will also present the well-traveled book back to the MIT community and the Libraries.

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MIT Is Top in Sport Taekwondo Division I Match, Beating Rival

Football Team Defeated Despite Multiple Attempts for a Comeback

Taekwondo, from Page 16

J. Sauza '11) finishing in the quarter-finals.

The women's A teams continued the dominating trend from last season, with MIT's A1 (Ranbel F. Sun '10, ZheChen "Mary" Hong '10, Lee) and A2 team (Quddus, Ji-Soo Kim '12, JiHye Kim '10) securing silver and bronze respectively. Similarly, the women's intermediate level B-teams also double-placed, with the B1 (Sun, Hong, Li) and B3 teams (Hsueh, Yang, and Lorraine Ling G) finishing first and third.

In the C-team (novice) division, the men's C1 (Ryan A. Rosario '12, David Y. Wen, '10, Ijeoma "EJ" Emeagwali '12) and C2 team (Williams, Bradley Wu '11, Wei-Yang Sun '11) had exceptionally strong showings and swept the top two spots.

The women's C1 (Stephanie P. Chen '12, Li, Teresa "Ty" Lin '12) and C2 (Tam, Yang, Heejung Kim '12) fought through multiple inju-

ries to end with a 1-3 finish. Both Lin and Li scored several head shots and spinning kicks, taking advantage of the new scoring system that increased the point values for such maneuvers.

Victory was not limited to seasoned veterans. Fresh from summer training and the recent sport taekwondo P.E. class, the women's beginner D1 team (Pino, Tiffany A. Chen '12, and Katherine L. Luo '13) seized gold with a victory over Tufts. The men's D1 team (Maxwell S. Mann '12, David M. Kim '13, Michael K. Yu '10) also gained valuable experience and finished second.

At the end of the day, MIT came out on top — winning first place in Division I with a total of 641 points, followed by rival Cornell University with 572 points.

With only two weeks left until the next tournament at Cornell on November 7, the team hopes to use this victory to push ahead and stay ahead, one kick at a time.

Football, from Page 16

momentum out of the gate as they marched down the field on the opening possession. An interception, however, quickly ended any surge in momentum the drive could have had.

The third quarter brought a scare for the Engineers. Quarterback Sean P. Kelly '12, who had been alternating snaps with starter Kyle T. Johnson '11, dislocated his knee on a broken pass play as he tried to scramble for positive yardage. Play was stopped immediately and all players joined their teams on the sidelines and knelt in silence as the trainers, medical staff, and coaches helped to secure Kelly and get him into the ambulance.

As play resumed, Coach Martinovich brought the Engineers togeth-

er to explain that Kelly's knee was stable and that the Engineers now had a second source of motivation.

Salve Regina was able to widen the gap, however, taking a 21-7 lead on a 46-yard pass from St. Onge to receiver Nick Piscitelli.

The Engineers remained determined and responded by moving the ball from their own 35 yard line down 42 yards down to the Seahawks' 23, where Peter W. Gilliland '12 booted a career-long 40-yard field goal to bring MIT to within 11 points.

SRU against responded swiftly, capping an 85-yard drive with another touchdown pass from St. Onge to bring the score to 28-10.

Brown then took off for the longest play of the day — on the first play from scrimmage on the ensuing kickoff, Brown scampered past Salve Regina on a 58-yard zone rush up the sidelines on the final score of the day, bringing the score to 28-17.

The loss was detrimental to the team. Seniors were especially heartbroken, losing to a team they had handily defeated in the three previous years of their MIT careers.

The season, however, is not a lost cause. Offensive guard Ethan E. Peterson '13 recognizes, "we have to finish this season strong for the seniors. Coach Martinovich told us at the team dinner Friday that these last three weeks are about the guys who are hanging up their pads. We owe it to them to keep working as hard as we have been throughout the year, to keep fighting."

The Engineers (1-6, 1-3 NEFC Boyd) will play the Plymouth State Panthers (6-2, 4-1 NEFC Boyd) at noon this Saturday in Plymouth, New Hampshire.

Sports Shorts, from Page 16


regular season loss from just four days ago. The Engineers pulled to a quick 2-1 lead after doubles play, and won the first two singles matches for a 4-1 lead. Babson responded with three straight singles wins, and everything came down to the #5 match between MIT's Alexandra C. Hall '12 and Babson's Mikaela Stamas. The two split the first two sets, but Hall swept the third to give the Engineers a 5-4 victory, advancing them to the semifinals against the #2 Blue of Wellesley College.

In the semifinal, MIT hoped to follow their victory from Saturday afternoon with a win over Wellesley in a rematch of last year's NEWMAC tournament championship. In doubles play, Leslie A. Hansen '10 and Anastasia Vishnevetsky '12 opened with an 8-2 victory, but Wellesley took the two other matches for a 2-1 lead.

Wellesley won four out the five singles matches to wrap up the match, with Vishnevetsky providing the only victory for the Engineers.

—Paul Blascovich, DAPER Staff

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SPORTS

Sport Taekwondo Opens Season With Dominant Victory at Home

By Kristina Lozoya  
TEAM MEMBER

In a decisive start to its season, the MIT Sport Taekwondo Club clinched first place at the first Eastern Collegiate Taekwondo Conference (ECTC) tournament of the year on Sunday, October 18. Organized by the club and hosted at the Johnson Athletic Center, the tournament drew 319 competitors from 20 different schools, including 46 athletes representing MIT.

The day began with a strong showing in the forms competition, in which patterned movements were judged on power and precision, with MIT placing in all belt divisions.

Black belt competitors cleaned house early on in the competition.

Erika L. Lee '12 and Rebecca Hung '11 dominated the women's division, taking gold and bronze, while team veteran Jason Uh '10 tied for first place in the men's division.

MIT continued this pace in the colored belt divisions, placing in all but one. Shammi S. Quddus '10 took first in the women's red belt division while Wenxian Hong G and Ning Wu G took third and fourth respectively in the men's red belt division. Christine Hsueh '10 and Kristina Lozoya '13 placed second and fourth places in women's blue belt, and Alvin S. Chen '11 took fourth in men's blue belt.

MIT double-placed in the majority of the lower color belt divisions, with Hsin-Jung "Sophia" Li '11 and Sharon W. Tam '10 winning first and third in the women's green belt division and newcomer Christopher

M. Williams G earning third for the men. In an especially large and competitive white and yellow belt division, Mengfei Yang '12 and Wendy Pino '11 secured first and fourth respectively.

With such strong performances in forms, MIT went into sparring competition with 189 points.

The men's A-team (advanced) division was stacked with some of the day's toughest competition; the men's A1 team (Wu, Uh, George C. Whitfield G) lost a tough match to RPI. Despite this early setback, MIT rallied back, with the men's A2 team (Benjamin M. Huan '11, Joseph S. Huan '11, Iliya T. Tsekov G) taking bronze and the men's A3 team (Aaron L. Sampson '10 and Daniel

Taekwondo, Page 15



Football Falls to Salve Regina on Senior Day

By Russell Spivak  
TEAM MEMBER

On a dreary, rainy Saturday, the MIT Engineers stepped onto Roberts Field in Steinbrenner Stadium for the final time this season. The game's final result was a loss to Salve Regina University 28-10.

The Engineers' pre-game ritual was moved up fifteen minutes as each of the 12 seniors were honored, running through a tunnel of teammates to be greeted by Head Coach Chad Martynovich, parents and loved ones. The announcer also spoke about each player individually, including accolades on and off the field. The twelve include Captain DeRon M. Brown, Michael P. Fitzgerald, Corey Garvey, Captain William J. Gibson, Captain Garth S. Grove, Tyler Z. Liechty, Anthony D. McDonald, Jordan N. Meenen, Brian H. Mickle, Marcus A. Parton, Zachary W. Rose, and Captain Alexander F. Rubino.

"All I ask," Rubino said in the pre-game huddle, "is that each and every one of you give everything you got and leave everything on the field. That's all I ask."

The Seahawks of Salve Regina University, a team MIT has beaten handily each of the past three years,

won the coin toss and elected to receive the ball to begin the game. The opening position was an inauspicious beginning to the game. The MIT defense, typically strong opening the game, could not stop the Seahawk march down the field. Salve opened with a one-yard quarterback sneak by Jeff St. Onge to take an early lead.

The Engineers had several chances to take the lead, bringing the ball to the Seahawk three and fifteenyard lines on two consecutive drives, but the Cardinal and Grey were held on a goal-line stand and then intercepted on the two drives. Following the interception, the Seahawks yet again methodically marched down the field entering MIT territory to eventually cap the drive with another run by St. Onge.

MIT was able to swing the momentum back in its favor late in the second quarter. Brown, who would finish the day with 246 yards on 41 carries, helped the Engineer offense with the majority of the drive including the final score on an 11-yard rush, cutting the lead down to 14-7 before both teams entered the locker rooms at halftime.

The Engineers came out strong, building on the previous half's

Football, Page 15

### Barker's Hat Trick Leads Field Hockey over Mount Holyoke

Kimberly A. Barker '13 recorded her first career hat trick while senior Ekavali Mishra '10 added a goal and three assists as MIT downed Mount Holyoke, 7-1, in a key New England Women's and Men's Athletic Conference (NEWMAC) field hockey match-up Saturday. With the win the Engineers (13-4) improve to 4-3 in NEWMAC play and move into a four-way tie for third place, with one league game remaining.

The Cardinal and Grey struck early with a pair of goals in the game's first five minutes. Anna H. Teruya '12 opened up the scoring just over three minutes in with a blast from the top of the circle off of a penalty corner. Barker would follow two minutes later, gathering the rebound and pushing it home for her 13th of the season. Barker converted another second-chance opportunity later in the frame, and completed her offensive outburst late in the period to send the Engineers

into the half up 5-0.

Playing in the final regular season home game of her career, Mishra notched her first goal of the season 10 minutes into the second stanza. Katie Kauffman '12 rounded out the scoring for MIT with her fifth of the season. The Cardinal and Grey outshot Mount Holyoke 21-18 and held a decisive 12-9 advantage in penalty corners. Five of Tech's seven goals came as a direct result of a corner.

MIT will close out its regular season Tuesday night at Clark at 7:00 p.m. in a crucial game for positioning in the upcoming NEWMAC Tournament, which begins next Saturday, October 31.

—Greg McKeever, DAPER Staff

### Women's Tennis Advances to NEWMAC Semifinals

MIT hosted the 2009 New England Women's and Men's Athletic Conference (NEWMAC) Women's Tennis Championship this weekend.

The tournament's first match was between MIT and Babson College, the Engineers looked to avenge their

Sports Shorts, Page 15

## UPCOMING HOME EVENTS

**Tuesday, October 27, 2009**  
Women's Soccer vs. Clark University  
7 p.m., Steinbrenner Stadium

SCOREBOARD	
Field Hockey	
Saturday, October 24, 2009	
Mount Holyoke College	1
MIT	7
Football	
Saturday, October 24, 2009	
Salve Regina University	28
MIT	17
Men's Soccer	
Saturday, October 24, 2009	
Wheaton College	2
MIT	1
Women's Soccer	
Saturday, October 24, 2009	
Mount Holyoke College	1
MIT	1
Women's Volleyball	
Friday, October 23, 2009	
Brandeis University	2
MIT	3
Saturday, October 24, 2009	
Tufts University	3
MIT	0
Amherst College	3
MIT	2
Women's Tennis	
Saturday, October 24, 2009	
Babson College	4
MIT	5
Sunday, October 25, 2009	
Wellesley College	5
MIT	2

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